



Course Selection Guide

2014 - 2015

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Introduction

High school students are faced with many choices and difficult decisions. Among them is the need to select an appropriate program of studies, one which is consistent with individual abilities, achievements and goals. This document provides the basic information needed to help make program and course decisions and outlines the comprehensive offerings of the Bristol Township School District. Parents and students are urged to consult with school personnel whenever questions regarding educational planning arise.

You and Your Secondary School Program

Students in high school vary in:

- Range of abilities
- Learning aptitudes
- Levels of maturity
- Career aspirations
- Interests

For such a diverse student body, our schools provide different types of programs and courses. These are offered because the school believes that students should:

- Develop academic competency.
- Develop to their full potential.
- Learn in ways appropriate for them.
- Learn what they need to know.

Students have the responsibility to:

- Develop their potential.
- Develop short and long range goals.
- Cooperate with staff and fellow students.
- Attend school regularly.

Programs within the schools change as students change. Each year, courses are examined and evaluated. Those which are successful are maintained. Others are modified or replaced and new courses are added. High school builds on the formal education you received in elementary and junior high school. It provides you with those learning experiences which lead to employment and/or higher education.

Seeking Academic Assistance

Some students will be able to plan their high school program with little or no assistance. Many, however, will want some help or want to discuss ideas with a knowledgeable person. The following sources are available:

- **Parents.** They will want to study the program and make some suggestions. Since they know you so well, their ideas should be given serious consideration.
- **Counselors and teachers.** They can help you decide which courses best fit your abilities, achievements, and goals. They can also explain the various course selection documents.
- **Student-parent-counselor conference.** Such a meeting can help you and your parents make plans and select courses which are best suited to your abilities and interests.

Guide for Choosing Appropriate Courses

| Advanced Placement (AP) Courses/ Dual Enrollment | Honors (HON) Courses | Academic/College Preparatory or Career Preparatory | Traditional Instruction |
|---|--|---|--|
| The student has a superior average from the previous year's honors class. | The student has an above average grade from the previous year's class. | The student has an average or above average grade from the previous year's class. | The student is undecided about post high school education but wishes to keep open an option for further education including community college, business school, trade school, technical school, military service, or full time work. |
| Quick to learn and demonstrates superior ability. | Quick to learn and demonstrates superior ability. | | In need of directed instruction and remediation. |
| Highly motivated and intends to go to college | Highly motivated and intends to go to college | Motivated and intends to go to college. | |
| Articulate in speech and writing. | Articulate in speech and writing. | Articulate in speech and writing. | |
| Energetic and capable of college work. | Energetic and capable of college preparatory work. | Energetic and capable of college preparatory work. | |
| Capable of independent reading. | Capable of independent reading. | Capable of independent reading. | |
| Required to take the AP exam/Dual Enrollment assessment. | Willing to accept responsibilities for rigorous assignments. | May be undecided about post high school education, but wishes to keep open an option for further education including community college, business school, trade school, technical school, military service, or full time work. | |
| Weighted 5.0 | Weighted 4.5 | Weighted 4.0 | Weighted 4.0 |

Curricula

The planning of a student's high school program is an extremely important project. Competition for college entrance, technical and vocational training, and for job placement has made it even more important that each student's program be planned wisely in close cooperation between parent and school.

Note: Students are expected to remain in their selected pattern of study for a full year.

Career Pathways Program

What is Career Pathways? Career Pathways is a career driven curriculum adopted by the school district designed to prepare students to reach their post-secondary educational and career goals.

Career Pathways Mission: The Career Pathways program at Bristol Township School District is designed to meet the individual needs of all students as they choose their career goals and become independent and responsible life-long learners.

Rationale: Pennsylvania's economic future depends on having a well-educated and skilled workforce. In the rapidly changing workplace, unskilled jobs are disappearing. Helping students to understand the need to have specialized, transferable skills to gain high-wage employment has never been more important.

Frequently Asked Questions about Career Pathways:

What are the four career pathways?

- Arts & Communication
- Business & Finance
- Engineering, Science & Technology
- Health & Social Services

What are the benefits of selecting a pathway?

- To help students select a career that matches their interests and skills
- To help students select elective courses related to their career goals
- To encourage students to make a post-secondary educational plan that will prepare them to succeed in the workforce
- To help students see a connection between what they learn within the classroom and the skills they need for success in their adult lives and world of work

What educational options are available for students after high school?

Many people believe that a four-year degree is the ticket to getting high-skill/high-wage jobs. Actually, a four-year degree is only one option for gaining skills and moving into the workforce as seen in the listing below:

Master's, Doctoral (PhD), or First Professional Degree: Training at a college or university level beyond a four-year bachelor's degree

Bachelor's degree: Undergraduate program of study (usually 4 years)

Associate's degree: Two-year program of study

Post-secondary Vocational Training (certificate): Document of completion of an educational program

Apprenticeship: Determined period of training time depending on career choice, individual works under a training supervisor

On-the-job training: Training on-the-job (short-term, moderate-term, long-term)

Military: Any branch of the armed forces – numerous careers and lengths of enlistment

Graduation Requirements

The purpose of the Harry S Truman High School program is to provide the best possible education to all students. Every course offered is considered important. All courses are available to all students, provided the stated prerequisites are met. The minimum curriculum should never be accepted as the standard for students. For most students such a program would be inadequate preparation for future life.

Credits Required for Graduation

Students are required to successfully complete a minimum of **26** credits in order to graduate. To receive credit, a minimum 1.0 grade average must be obtained in all courses. Credits will be awarded to students who earn an A, B, C, D, or P as a final grade in a course with two semester exams. Students will fail a full year course for the year if they receive a:

- Grade of F for three marking periods
- Grade of F for two marking periods and the final exam.
- Grade of I in the final marking period.
- Final grade lower than 1.0

A minimum of 26 credits are required for all graduating classes. Students must receive a minimum average grade of 1.0 in each of the following:

| | |
|---------------------|--|
| English | 4 credits |
| Social Studies | 3 credits (4 credits are strongly encouraged) |
| Science | 3 credits (4 credits are strongly encouraged) |
| Mathematics | 4 credits |
| Wellness/Fitness | 2 credits (1 credit Physical Education, 1 credit Health) |
| Arts and Humanities | 2 credits |
| Electives | 7 credits (For college bound students 2 credits of Foreign Language are strongly encouraged, 1 credit of either Social Studies or Science is required) |
| Graduation Project | 1 credit (Satisfactory completion of a graduation project) |
| Total | 26 credits |

Graduation Projects

Students will complete a Graduation Project by the end of their senior year. The purpose of the project is to ensure that the students have the opportunity to foster and develop a sense of empathy and social responsibility. The project promotes social skills which enables the students to communicate significant knowledge and understanding of their community through participation in a specialized area of service.

The Graduation Project will be a focus of their senior year. However, sophomores and juniors are able to complete the project beforehand, provided they are approved to do so and all guidelines are followed accordingly.

Elective Subjects

Elective subjects are available for all students. These subjects are scheduled as time, personnel, and facilities allow. A student's choice of elective subjects must be indicated in the space provided on the course selection form. Elective subjects are described under the discipline to which they belong and are listed on the course selection sheets. Elective subjects are scheduled when possible but cannot be guaranteed.

Note: Courses are scheduled only if a sufficient number of students select the course.

Online Courses

Bristol Township School District is committed to our mission of “prepare and empower our students to be productive, competitive members in an ever-changing global society.” With that goal in mind, the BTSD course offerings for the 2014-2015 school year include several opportunities for online learning. Although all courses are available in a face-to-face format, some courses will also be offered in an “online” format.

Online courses are delivered fully online by a BTSD teacher who will facilitate the online work, as well as be available at specific times for support to students, as needed. Students can complete their online work “anytime, anywhere” within the guidelines of the specific course. Therefore, there will be no classroom time, as students can choose when to complete their work online. These courses will be scheduled in the student's schedule just like a traditional course, but will not “meet” face-to-face. Students enrolled in an online course will receive their course syllabus, online access to the course, and assignments on the first day of school in a scheduled meeting time.

ONLINE COURSE OFFERINGS: Algebra I, Biology, English 10, Photo I

Note: Courses are scheduled only if a sufficient number of students select the course.

Advanced Placement/Honors Courses and Weighted Grades

Those courses officially designated as Advanced Placement (AP) and Honors (HON) courses by the title will have the final grades weighted for the purpose of grade point average and class rank. Advanced Placement and Honors courses meet the following criteria:

- Require high level thinking, writing, and reading skills
- Objectives are aimed at the college level
- Require a major written final exam
- Require extensive homework beyond normal expectations for high school
- AP courses require that all students take the AP test to receive the AP weighted credit
- AP courses may require extensive summer assignments

AP & Dual Enrollment courses are weighted 5.0 and Honors courses are weighted 4.5.

AP Courses

The following AP courses are offered:

- AP English
- AP American Government
- AP Biology
- AP Physics
- AP Statistics
- AP American History
- AP Chemistry
- AP Calculus
- AP Psychology

All AP courses are weighted 5.0.

Class Rank

Class rank is a numerical representation of the academic standing of a student in the Bristol Township School District. It represents both quality and quantity of work completed during a student's academic career in grades nine through twelve.

Note: Any student who drops a class after the 1st marking period will receive a W-P or W-F that will be reflected on their transcript and may affect their GPA and rank.

Factors that affect class rank are:

- Total earned quality points
- Courses taken during the school year
- Courses taken in summer school (make-up and enrichment)

Note: The quality points used to determine class rank are the total possible points for a course with a grade of "A" (5.0 points for AP courses, 4.5 points for Honors courses, and 4.0 points for Academic and Traditional courses).

Promotion Guidelines

Promotion to Grade 10

In order to be promoted to grade 10, a student must have earned 6.0 credits. These credits must be earned by August 15th of the same school year in accordance with the following guidelines:

- If a student fails a course, it is strongly recommended that the course be made up in summer school.
- A maximum of two credits may be earned in a summer school session
- Elective credits cannot be made up in summer school

Promotion to Grade 11

In order to be promoted to grade 11, a student must have earned 12.0 credits. These credits must be earned by August 15th of the same school year in accordance with the following guidelines:

- If a student fails a course, it is strongly recommended that the course be made up in summer school.
- A maximum of two credits may be earned in a summer school session

- Elective credits cannot be made up in summer school

Promotion to Grade 12

In order to be promoted to grade 12, a student must have earned 18.0 credits. These credits must be earned by August 15th of the same school year in accordance with the following guidelines:

- If a student fails a course, it is strongly recommended that the course be made up in summer school.
- A maximum of two credits may be earned in a summer school session
- Elective credits cannot be made up in summer school

P.I.A.A. Athletic Eligibility

A student has four years of eligibility for athletic teams beginning on the first day of 9th grade. To be eligible for an athletic team, a student must:

- Pass four full credit courses per marking period.
- Not be absent from school for more than 20 days in one semester (1/2 year).
- Be present in school the day of each practice or game.

Each coach or advisor has the ability to establish additional rules and procedures which he/she expects his/her team members to follow. This is just a brief overview of the P.I.A.A. Athletic Eligibility rules/regulations. For further clarification, contact the Athletic Director's office.

Student Athletes

The NCAA initial-eligibility rules have changed. If you plan to enroll in any Division I or Division II college or university in Fall, 2005 or later, please read this information carefully.

For students entering any college or university on or after August 1, 2005, your NCAA initial eligibility will be evaluated under the new rules described below.

Core Courses

NCAA Division I requires 16 core courses. NCAA Division II currently requires 14 core courses. Division II will require 16 core courses for students enrolling on or after August 1, 2013. See the charts below.

NCAA Division I will require 10 core courses to be completed **prior to the seventh semester** (seven of the 10 must be a combination of English, math or natural/physical science that meet the distribution requirements below). These 10 courses become "locked in" at the seventh semester and cannot be retaken for grade improvement.

Beginning August 1, 2016, it will be possible for a Division I college-bound student-athlete to still receive athletics aid and the ability to practice with the team if he or she fails to meet the 10 course requirement, but would not be able to compete.

Test Scores

Division I uses a sliding scale to match test scores and core grade-point averages (GPA). The sliding scale for those requirements is shown on Page No. 2 of this sheet.

Division II requires a minimum SAT score of 820 or an ACT sum score of 68.

The SAT score used for NCAA purposes includes **only** the critical reading and math sections. The

writing section of the SAT is not used.

The ACT score used for NCAA purposes is a **sum** of the following four sections: English, mathematics, reading and science.

When you register for the SAT or ACT, use the NCAA Eligibility Center code of 9999 to ensure all SAT and ACT scores are reported directly to the NCAA Eligibility Center from the testing agency. Test scores that appear on transcripts will not be used.

Grade-Point Average

Be sure to look at your high school's List of NCAA Courses on the NCAA Eligibility Center's website (www.eligibilitycenter.org). Only courses that appear on your school's List of NCAA Courses will be used in the calculation of the core GPA. Use the list as a guide.

Division I students enrolling full time **before August 1, 2016**, should use Sliding Scale A to determine eligibility to receive athletics aid, practice and competition during the first year.

Division I GPA required to receive athletics aid and practice **on or after August 1, 2016**, is 2.000 (corresponding test-score requirements are listed on Sliding Scale B on Page No. 2 of this sheet).

Division I GPA required to be eligible for competition **on or after August 1, 2016**, is 2.300 (corresponding test-score requirements are listed on Sliding Scale B on Page No. 2 of this sheet).

The Division II core GPA requirement is a minimum of 2.0.

The breakdown of the requirements is listed below.

| DIVISION I | DIVISION II 2013 and after |
|--|---|
| 16 Core Courses: | 16 Core Courses: |
| 4 years of English. 3 years of mathematics (Algebra I or higher). 2 years of natural/physical science (1 year of lab if offered by high school). 1 year of additional English, mathematics or natural/physical science. 2 years of social science. 4 years of additional courses (from any area above, foreign language or comparative religion/philosophy). | 3 years of English. 2 years of mathematics (Algebra I or higher). 2 years of natural/physical science (1 year of lab if offered by high school). 3 years of additional English, mathematics or natural/physical science. 2 years of social science. 4 years of additional courses (from any area above, foreign language or comparative religion/philosophy). |

Note: Computer-science courses may only be used for initial-eligibility purposes if the course receives graduation credit in mathematics or natural/physical science and is listed as such on the high school's list of NCAA-approved core courses.

Other Important Information

- In Division II, there is no sliding scale. The minimum core gradepoint average is 2.000. The minimum SAT score is 820 (Verbal and Math sections only) and the minimum ACT sum score is 68.
- Students first entering a Division I or Division II collegiate institution on or after August 1, 2005 must meet the new 14 core-course rule.
- Students first entering a Division I collegiate institution on or after August 1, 2008, must meet the 16 core-course rule.
- The SAT combined score is based on the Verbal and Math sections only. The new writing section will not be used.
- For more information regarding the new rule, please go to www.ncaaclearinghouse.net. IF YOU HAVE QUESTIONS ABOUT NCAA ELIGIBILITY, PLEASE CALL THE NCAA INITIAL-ELIGIBILITY CLEARINGHOUSE TOLL-FREE AT 877-262-1492.

Recommendations

A student's schedule for the school year will be completed based upon the selections he/she indicated on his/her course selection sheet. It is important that course selections be made with regard to the individual's need, aptitude, ability and interests. Students are encouraged to consult with their guidance counselors, teachers and parents concerning questions they may have regarding course selection and the continuation of a course of study.

It is considered a good educational practice to establish standards for students who wish to continue to work in areas of specialized study. A grade of C is the minimal grade which a student may earn in order to be recommended for continued study in sequential subjects. The recommendation of the teacher in that subject area is also required.

Students are expected to remain in their selected courses for a full school year. Students, parents, teachers and counselors should be in agreement to assure the greatest success for each student's assignments. Careful thought must be given to courses selected.

Note: No student initiated schedule changes will be considered after May 31, 2013.

Special Education

Harry S. Truman High School operates a Learning Support Program to meet the needs of identified exceptional students at the secondary level. Placement in the program for special instruction is based on the needs of each student as specified in his/her Individualized Educational Plan (IEP).

Students enrolled in special education programs are offered opportunities to participate in all school activities on an equal basis with non-exceptional students. A student who satisfactorily completes a special education program developed by an IEP team is granted and issued a regular high school diploma. Students age 14 and older must have a Transition Individualized Educational Plan (TIEP) developed every year. The TIEP sets forth a plan to guide students in preparing for post-secondary life.

Enrichment programs and courses are adapted to meet the needs of exceptional students. Successful completion of the special education program entitles a student to a Harry S Truman High School Diploma.

Course Catalog

Career & Technical Education Program

Bucks County Technical School

Admission to the Lower Bucks Technical School is selective and based on the student's academic achievement, citizenship and attendance record. A quota system, with allotted openings for each vocational area, is in effect. Most shops are organized into sequential, four-year programs beginning with the 9th grade year. A number of 10th, 11th and 12th graders are also accepted each year. Entrance to the Technical School is a one year commitment.

Students should see their counselor for details about applying to Tech School.

Fine and Performing Art Courses

Art

| | | | | |
|-------------|----------------------------|---------------|-----------------|--------------------|
| 8920 | Introduction to Art | 1 year | 1 credit | Grades 9-10 |
|-------------|----------------------------|---------------|-----------------|--------------------|

Pathway: Arts & Communication

This course is designed to give students the basic understanding and appreciation for art as it will be encountered on a high school level. Students will be introduced to the basic principles of art through drawing, perspective, painting, and sculpture. It will provide an opportunity to stimulate creativity and develop problem solving skills as well as allowing students to expand their own general interest in art.

| | | | | |
|-------------|--------------|---------------|-----------------|---------------------|
| 8021 | Art I | 1 year | 1 credit | Grades 10-12 |
|-------------|--------------|---------------|-----------------|---------------------|

Pathway: Arts & Communication

This course is designed for those students with a high interest in art. This course will emphasize greater skill development in drawing, principals, composition, and elements of art, color theory, perspective, and sculpture. Students will also be given a sense of art history through discussion and visuals that relate to class projects. Students are required to maintain a weekly sketchbook.

Prerequisite: Teacher recommendation

| | | | | |
|-------------|---------------|---------------|-----------------|---------------------|
| 8121 | Art II | 1 year | 1 credit | Grades 11-12 |
|-------------|---------------|---------------|-----------------|---------------------|

Pathway: Arts & Communication

This course is for the serious art student who desires to continue as an art major, and is considering a profession in the arts. This course requires a sketchbook, written reports, and projects in a variety of media, such as painting, drawing, sculpture, and printmaking. One period a week is devoted to art history.

Prerequisite: Art I

| | | | |
|---|---------------|------------------|---------------------|
| 8231 Art III | 1 year | 1 credits | Grade 12 |
| Pathway: Arts & Communication | | | |
| Continuation and refinement of Art II. Course requires an outside sketchbook and daily entries in an art notebook. This course is designed to further enhance their artistic skills and prepare their portfolio. | | | |
| Prerequisite: Art II and teacher recommendation | | | |
| 8022 Craft & Design I | 1 year | 1 credit | Grades 10-12 |
| Pathway: Arts & Communication | | | |
| This is a studio course dealing with the basic forming techniques of ceramics, paper, and fiber. The development and history of art forms, along with societal impacts will also be covered. | | | |
| 8122 Craft & Design II | 1 year | 1 credit | Grades 11-12 |
| Pathway: Arts & Communication | | | |
| This is a studio course dealing with advanced techniques of functional art. This course involves academic research in the history of cultural influences affecting crafts. Independent working skills are a must. | | | |
| Prerequisite: Craft & Design I | | | |
| 8123 Painting I | 1 year | 1 credit | Grades 11-12 |
| Pathway: Arts & Communication | | | |
| A studio course dealing with the facets of painting including techniques of sketching, drawing, and composition with strong emphasis on art history. | | | |
| Prerequisite: Art I | | | |
| 8232 Painting II | 1 year | 1 credit | Grade 12 |
| Pathway: Arts & Communication | | | |
| A course designed to experiment with advanced techniques of painting and design. | | | |
| Prerequisite: Painting I | | | |
| 9123 Art of Communications | 1 year | 1 credit | Grades 10-12 |
| Pathway: Arts & Communication | | | |
| This course is designed for students interested in furthering their knowledge in the communication area and typography. Various printing processes are emphasized. Students will receive computer design instruction, creating original designs for use on clothing, posters, flyers and other media. | | | |
| 8023 Graphic Design I | 1 year | 1 credit | Grades 10-12 |
| Pathway: Arts & Communication | | | |
| Students will study the elements of design and transfer that knowledge to the computer lab. This course will provide students with a good foundation on how to work with Adobe Photoshop/Illustrator. | | | |
| 8141 Graphic Design II | 1 year | 1 credit | Grades 11-12 |
| Pathway: Arts & Communication | | | |
| This course will continue the exploration of adobe Photoshop/Illustrator and how it is used in the design industry. | | | |
| Prerequisite: Graphic Design I | | | |
| 8124 Photography I | 1 year | 1 credit | Grades 11-12 |
| Pathway: Arts & Communication | | | |
| This course is designed to study the process of both traditional film and digital photography. The technical and artistic use of the camera is emphasized. Film photography equipment is provided, however, students do need access to a personal digital camera. | | | |
| 8233 Photography II | 1 year | 1 credit | Grade 12 |
| Pathway: Arts & Communication | | | |
| This course is designed for the student who has successfully completed Photography I and has an interest in photography. The course includes the study of digital photography and Adobe Photoshop. There is a \$25.00 material fee. | | | |
| Prerequisite: Grade of B or higher in Photography I | | | |

HALF –YEAR COURSES

8310 Introduction to Art **1/2 year .5 credit Grades 11-12**

This course is designed to give students the basic understanding and appreciation for art as it will be encountered on a high school level. Students will be introduced to the basic principles of art through drawing, perspective, painting, and sculpture. It will provide an opportunity to stimulate creativity and develop problem solving skills as well as allowing students to expand their own general interest in art.

8311 Printmaking **1/2 year .5 credit Grades 11-12**

A studio workshop course dealing with drawing and designing original art print while exploring hand printing techniques such as woodcuts, calligraphy, linocuts, dry point, silk-screen, monotype and embossing. Outside sketchbook required.

8312 Sculpture **1/2 year .5 credit Grades 11-12**

A studio workshop course designed to introduce students to techniques of sculpture and to help students understand the difference between 2- dimensional and 3- dimensional art. Students will explore different mediums such as metal, wood, plastic, stone, and clay. Outside sketch book required.

Theatre

8024 Theatre I **1 year 1 credit Grades 9-12**

Pathway: Arts & Communication

This course is designed for students with little or no previous knowledge of theatre. It provides a positive and non-threatening environment for acting and stresses the use of theatre games and exercises. Some of the objectives of the course include building students' self-confidence and self-awareness. In addition, students are responsible for preparing monologues and scenes that must be memorized for class presentation.

8127 Theatre II **1 year 1 credit Grades 10-12**

Pathway: Arts & Communication

This course is designed for students who have successfully completed Theatre I as a prerequisite and have a genuine interest in the Theatre Arts. The course will build on the learning and objectives of the Theatre I and will stress advanced study in acting.

Prerequisite: Grade of B or higher in Theatre I and/or teacher recommendation

8234 Theatre III **1 year 1 credit Grades 11-12**

Pathway: Arts & Communication

This course is designed for students who have successfully completed Theatre I and Theatre II. The course will focus on the development of advanced techniques in the study of acting, directing and stagecraft.

Prerequisite: Grade of B or higher in Theatre II and teacher recommendation

8128 Acting in Musical Theatre **1 year 1 credit Grades 11-12**

Pathway: Arts & Communication

This course is designed for students with a sincere interest in musical theatre performance. It will integrate the study of musical theatre acting with traditional acting techniques. The course will include the study of musical comedy, cabaret theatre, and concept musicals.

Prerequisite: Grade of B or higher in Theater I and/or teacher recommendation

Music

| | | | | |
|---|---|---------------|-----------------|---------------------|
| 8025 | Concert Band I | 1 year | 1 credit | Grades 9-12 |
| 8137 | Concert Band II | | | |
| 8237 | Concert Band III | | | |
| 8247 | Concert Band IV | | | |
| Pathway: Arts & Communication | | | | |
| This course is offered to prepare students to perform in a concert setting. Students will study different styles of band literature including classical, popular and 20th century. Sight-reading and technical development will also be stressed. | | | | |
| Prerequisite: Teacher recommendation required. | | | | |
| 8026 | Music Theory I | 1 year | 1 credit | Grades 10-12 |
| Pathway: Arts & Communication | | | | |
| This course is offered to beginning musicians as an introduction to music reading, writing, aural perception, melodic lines and harmonies. | | | | |
| Prerequisite: Music Theory I or teacher recommendation | | | | |
| 8027 | Concert Choir 1 | 1 year | 1 credit | Grades 9--12 |
| 8130 | Concert Choir 2 | | | |
| 8235 | Concert Choir 3 | | | |
| 8245 | Concert Choir 4 | | | |
| Pathway: Arts & Communication | | | | |
| All styles and genres of music are studied and performed in class. Emphasis is placed on choral singing with good tone production and musical interpretation. Reading music is an on-going skill that singers acquire through singing various musical pieces. This is a performance based class and participation in a few after school rehearsals and evening concerts is a requirement. | | | | |
| 8140 | Intro to Digital Music and Media | 1 year | 1 credit | Grades 11-12 |
| Pathway: Arts & Communication | | | | |
| This course is designed for students who are interested in learning basic music sequencing and sound engineering through the use of Garage Band, electronic keyboarding, electric guitar, and related MIDI and audio devices. This course will also examine music podcasting and creative music rights. | | | | |
| 8028 | Piano Lab I | 1 year | 1 credit | Grades 9-12 |
| Pathway: Arts & Communication | | | | |
| This course is designed for students interested in learning how to play the piano. Students will learn how to read music and basic piano skills such as major scales, chords, chord progressions, and songs from the Level I piano book. | | | | |
| 8138 | Piano Lab II | 1 year | 1 credit | Grades 10-12 |
| Pathway: Arts & Communication | | | | |
| This course is designed for students interested in continuing their study of piano at the intermediate level. Students build upon the skills learned in Piano Lab I class and learn all major and minor scales and chords. Repertoire will be from Level II piano books. | | | | |
| Prerequisite: Piano Lab I | | | | |
| 8029 | Guitar I | 1 year | 1 credit | Grades 9-12 |
| Pathway: Arts & Communication | | | | |
| This course is designed to teach the beginning student who has little or no knowledge of guitar. Scales, chord progressions and theory necessary to play the instrument will be studied. | | | | |

Business/Computer Application Courses

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|--|---------------------------------|---------------|-----------------|---------------------|
| 5022 | Introduction to Business | 1 year | 1 credit | Grades 9-12 |
| Pathway: Business & Finance | | | | |
| This course is designed to enhance the student's awareness of the business world. Topics include managing a business and personal finances, marketing in today's world, requirements for building a entrepreneurship, partnerships, corporations, basic accounting, savings and investment strategies, introduction to a specific computer package and career planning. | | | | |
| 5131 | Business Management | 1 year | 1 credit | Grades 10-12 |
| Pathway: Business & Finance | | | | |
| This course is designed for any student who is planning to study business in college or would some day like to own their own business. Topics include the stock market, business structures, marketing, human resources, how to start a business and the world of business computers. | | | | |
| Prerequisite: Introduction to Business | | | | |
| 5023 | Accounting I | 1 year | 1 credit | Grades 9-12 |
| Pathway: Business & Finance | | | | |
| An introduction to the fundamental principles of the accounting cycle in its simplest form, including the use of special journals, subsidiary ledgers, and a payroll system. The computer is used extensively throughout the course in the completion of the student's work. | | | | |
| 5132 | Accounting II | 1 year | 1 credit | Grades 10-12 |
| Pathway: Business & Finance | | | | |
| A continuation of Accounting I. After review of basic accounting procedures, emphasis is placed on departmental and payroll accounting, updating accounts by adjustment, partnership accounting and corporate accounting. Material is organized so students learn how to use accounting data in interpreting accounting information. Computer accounting is a regular part of the course work. | | | | |
| Prerequisite: Accounting I | | | | |
| 5920 | Computer Applications I | 1 year | 1 credit | Grades 9 -12 |
| Pathway: Business & Finance | | | | |
| This course introduces the basic principles of computers and application software. It provides an introduction to Word, Excel, PowerPoint, MS Publisher, and Internet research skills. | | | | |
| 5139 | Fashion Marketing | 1 year | 1 credit | Grades 11-12 |
| Pathway: Arts & Communication/Business & Finance | | | | |
| This course introduces students to the various aspects of the fashion industry. Students will acquire complete understanding of current industry standards as well as terminology and consumer trends. Students will learn specific marketing strategies used in the fashion field. Guest speakers and class trips provide students with real world experiences and perspectives. | | | | |
| 5140 | Personal Finance | 1 year | 1 credit | Grade 12 |
| Pathway: Arts & Communication/Business & Finance | | | | |
| This course is designed to help students understand the impact of individual choices concerning occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets; simulate use of checking and savings accounts; demonstrate knowledge of finance, debt, and credit management; and evaluate and understand insurance and taxes. | | | | |

English Courses

| | | | |
|---|---------------|-----------------|-----------------|
| 1920 English 9 | 1 year | 1 credit | Grade 9 |
| Pathway: All This course focuses on the development of essential reading comprehension and writing skills in alignment with the Keystone Exam. Numerous pieces of literature will be examined, including novels <i>Night</i> and <i>We All Fall Down</i> and Shakespeare's <i>Romeo and Juliet</i> . | | | |
| 1940 English 9 with Extension | 1 year | 1 credit | Grade 9 |
| Pathway: All This course focuses on the basic development of essential reading comprehension and writing skills in alignment with the Keystone Exam.. Lab periods will provide students with assignments and further support of the skills developed in class. Numerous pieces of literature will be examined, including the novel <i>Night</i> and Shakespeare's <i>Romeo and Juliet</i> . *Meets two periods each day. | | | |
| 1900 Honors English 9 | 1 year | 1 credit | Grade 9 |
| Pathway: All This course focuses on the advanced development of essential reading comprehension and writing skills in alignment with the Keystone Exam.. Numerous pieces of literature will be examined, including the novels <i>Night</i> , <i>We All Fall Down</i> , and <i>To Kill a Mockingbird</i> and Shakespeare's <i>Romeo and Juliet</i> . Weighted 4.5. Prerequisite: Grade of B or higher in Honors English 8 or A in English 8 with teacher recommendation and advanced on the PSSA exam. | | | |
| 1020 English 10 | 1 year | 1 credit | Grade 10 |
| Pathway: All This course examines World Literature, including multicultural readings. Study of the writing process is continued, with special emphasis on informative writing. Reading comprehension will be a major focus of the course in preparation for the literature Keystone Exam. *Also available online | | | |
| 1040 English 10 with Extension | 1 year | 1 credit | Grade 10 |
| Pathway: All This course examines World Literature, including multicultural readings. Study of the writing process is continued with special emphasis on informative writing. Reading comprehension will be a major focus of the course in preparation for the literature Keystone Exam. This course is designed for those students that have demonstrated weakness in prior courses and on state and district assessments. *Meets two periods each day. | | | |
| 1000 Honors English 10 | 1 year | 1 credit | Grade 10 |
| Pathway: All Offers expansion of college oriented skills in vocabulary, grammar and writing. An examination of World Literature and Classical literature. Multi-cultural works are included in the world literature readings. Course content is designed toward students planning on furthering their education. Reading comprehension will be a major focus of the course in preparation for the literature Keystone Exam. Weighted 4.5 *Also available online Prerequisite: Grade of B or higher in Honors English 9 or A in English 9 | | | |
| 1120 English 11 | 1 year | 1 credit | Grade 11 |
| Pathway: All The course provides an in depth study of American Literature. It includes the study of college level vocabulary and prepares the student for academic studies beyond high school. Skills stressed will include subjective and objective writing, thinking, speaking and reading comprehension. Grammar, spelling and structure will be reviewed to support student writing. | | | |

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|--|-----------------------------|---------------|-----------------|-----------------|
| 1140 | English 11 | 1 year | 1 credit | Grade 11 |
| Pathway: All | | | | |
| The course provides an in depth study of American Literature. It includes the study of college level vocabulary and prepares the student for academic studies beyond high school. Skills stressed will include subjective and objective writing, thinking, speaking and reading comprehension. Grammar, spelling and structure will be reviewed to support student writing. This course is designed for those students that have demonstrated weakness in prior courses and on state and district assessments. | | | | |
| 1100 | Honors English 11 | 1 year | 1 credit | Grade 11 |
| Pathway: All | | | | |
| The course provides an intensive study of American Literature, advanced level vocabulary, and speaking and writing skills in preparation for college level studies. Preparation for SAT's and different modes of writing will also be stressed. Weighted 4.5. | | | | |
| Prerequisite: Grade of B or higher in Honors English 10 or A in English 10 | | | | |
| 1220 | English 12 | 1 year | 1 credit | Grade 12 |
| Pathway: All | | | | |
| This course includes a survey of British Literature, which will be supplemented with World Literature, vocabulary study suitable for college-bound students and composition skills. Research skills are taught. | | | | |
| 1200 | Honors English 12 | 1 year | 1 credit | Grade 12 |
| Pathway: All | | | | |
| This course is an intensive and extensive survey of British literature from the Anglo-Saxon period to modern times. Novels and/or dramas will be read outside of class with reports, tests or projects required. Vocabulary study is directed toward preparation for college and SAT exam. Writing skills will be continued from 11 th grade program, with emphasis on expository and essay writing. A research project resulting in a full term paper is required. Weighted 4.5. | | | | |
| Prerequisite: Grade of B or higher in Honors English 11 or A in English 11 | | | | |
| 1300 | AP English 12 | 1 year | 1 credit | Grade 12 |
| Pathway: Arts & Communication | | | | |
| A national program, Advanced Placement in English provides seniors with the opportunity to complete college level study while in high school. Students also have the opportunity to receive up to six college level credits for their work, based upon the results of the Advanced Placement Examination. The Advanced Placement Exam in Literature is offered in the spring of each academic year. This course is academically demanding and stresses skill in literary analysis and expository writing. Therefore, much outside reading is required and a summer assignment is given. Students may take both English/Humanities 12 and AP English 12, if they wish. Weighted 5.0. | | | | |
| Prerequisite: Grade of B or higher in Humanities or Honors English and teacher recommendation | | | | |
| 1901 | Humanities English 9 | 1 year | 1 credit | Grade 9 |
| 1001 | Humanities 10 | 1 year | 1 credit | Grade 10 |
| 1101 | Humanities 11 | 1 year | 1 credit | Grade 11 |
| 1201 | Humanities 12 | 1 year | 1 credit | Grade 12 |
| Pathway: All | | | | |
| These courses are designed to meet the needs of those students who have been identified by the district as mentally gifted. Students will be guided through a variety of projects, both group and individual, that investigates a wide range of topics such as photography, film, philosophy, etc. Students will research topics and create projects that are designed to engage students in areas of interest, broaden their base of knowledge, and allow for creative thinking and problem solving. Weighted 4.5 | | | | |

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|--|--|---------------|-----------------|-----------------|
| 1260 | English –Reading Proficiency Workshop | 1 year | 1 credit | Grade 12 |
| Pathway: All | | | | |
| Required of all students in grade 12 who have not met the Proficiency standard in Literature on the Keystone Exam. This course will offer students the opportunity to strengthen their basic reading and language skills to attain these competencies. | | | | |

English Elective Courses

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|---|-----------------------------------|---------------|-----------------|---------------------|
| 1240 | Yearbook Class | 1 year | 1 credit | Grade 12 |
| Pathway: All | | | | |
| This course will engage students with writing, technology, visual and electronic media as tools for learning as they create, clarify, critique, and produce a final copy of the school yearbook. Individual and team responsibilities, journalistic ethics, and responsibility to cover subjects expected of a school yearbook will be demonstrated. At different intervals throughout the course, students will have firsthand information delivered by Mr. Ferraro of Student Services Yearbook Company. Leadership and teamwork abilities will be demonstrated consistently throughout the course. | | | | |
| 1236 | Introduction to Film Study | 1 year | 1 credit | Grade 12 |
| Pathway: All | | | | |
| This course is designed to increase student understanding of the aesthetics associated with this visual medium. Students will be required to view films critically through oral and written responses. | | | | |
| 8120 | Video Production I | 1 year | 1 credit | Grades 11-12 |
| Pathway: Arts & Communication | | | | |
| This course is an academic pursuit of the arts related to the technical and visual elements of video production. There is a strong emphasis of reading/writing scripts and editing video on the computer. | | | | |
| 8230 | Video Production II | 1 year | 1 credit | Grade 12 |
| Pathway: Arts & Communication | | | | |
| This course is a continuation of Video Production I. The course will examine advanced techniques in broadcasting, vector graphics, and digital compositing. Topics discussed will include rotoscoping, wave form modulation, and computer generated special effects. | | | | |
| Prerequisite: Video Production I and teacher recommendation | | | | |

Half-Year Courses

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|--|-------------------------|-----------------|------------------|---------------------|
| 1230 | Journalism I | 1/2 year | .5 credit | Grades 11-12 |
| Pathway: All | | | | |
| Journalism I is a survey of the different areas of media reporting, including newspaper writing and broadcast journalism. Basic techniques for effective writing, layout design, and presentation will be discussed. Included in this study will be the analysis of current news reporting that involves daily newspapers, magazines, and television products. | | | | |
| 1232 | Creative Writing | 1/2 year | .5 credit | Grades 11-12 |
| Pathway: All | | | | |
| In this course students will explore various forms of informal writing, such as poems, biographies, short stories, and one-act play scripts. Emphasis will be on imagination and style, creativity, and productivity. | | | | |
| 1230 | Journalism I | 1/2 year | .5 credit | Grades 11-12 |
| Pathway: All | | | | |
| Journalism I is a survey of the different areas of media reporting, including newspaper writing and broadcast journalism. Basic techniques for effective writing, layout design, and presentation will be discussed. Included in this study will be the analysis of current news reporting that involves daily newspapers, magazines, and television products. | | | | |

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|--|---|-----------------|------------------|---------------------|
| 1231 | Public Speaking | 1/2 year | .5 credit | Grades 11-12 |
| Pathway: All | | | | |
| This course is designed to enable students to communicate more effectively in a public setting. Students will learn to organize and research to present informational, persuasive and narrative speeches. | | | | |
| 1237 | Women in American Literature & Media | 1/2 year | .5 credit | Grades 11-12 |
| Pathway: All | | | | |
| This is an English based class for both males and females in 11th & 12th grades, focusing on themes, patterns, and symbolism regarding women in the 19th, 20th, and 21st centuries, requiring the analysis of both literature and film with several writing assignments. Gender stereotyping, new perspectives about the roles of women, the progression (or lack thereof) of women in society, and the resistance and transformation of women are highlighted. | | | | |
| 1238 | Science and Technology in Literature | 1/2 year | .5 credit | Grades 11-12 |
| Pathway: All | | | | |
| Students in this course will explore the roles of science and technology in our culture through the critical analysis of prose fiction, poems, dramas, film, television, and other literary media. The course is not only focused on science-fiction, as students will engage both fiction and non-fiction readings that span from past to present, investigating the cultural and societal implications of science and technology through writing, discussions, and projects. | | | | |
| 1239 | English for Future Educators | 1/2 year | .5 credit | Grades 11-12 |
| Pathway: All | | | | |
| This course introduces students who are interested in pursuing a career in education to the tasks of establishing a purpose for reading, activity and lesson planning, assessment design and teaching short, prepared lessons. Assigned course reading will include literary fiction, popular fiction, non-fiction, and Shakespeare's "The Merchant of Venice". | | | | |
| 1170E | SAT Preparation | 1/2 year | .5 credit | Grades 10-12 |
| This course is designed to familiarize students with the current Scholastic Achievement Test. Students will receive instruction and practice in reading, writing.. Reducing test anxiety through constant practice on past tests is an integral part of the course. Students will learn test taking strategies. | | | | |
| 1145 | Keystone literature Review | 1/2 year | .5 credit | Grades 10-12 |
| This course is designed to provide remediation to students who have passed English 10 but scored at the basic or below basic level on the Keystone Literature Exam. The purpose is to prepare the student to successfully complete the PA Keystone Literature Exam. | | | | |

Dual Enrollment Courses

Harry S. Truman High School, in partnership with local Colleges, has created a series of "Dual Enrollment Courses." These courses allow our students to concurrently earn college and high school credits. Professors from the college instruct our students at the high school. Students can receive up to 12 college credits before they graduate. These courses carry a weighted 5.0 designation. The following English courses are Dual Enrollment Courses.

| | | | | |
|--|----------------------------|---------------|-----------------|---------------------|
| 1400 | American Literature | ½ year | 1 credit | Grades 11-12 |
| Pathway: Arts & Communication | | | | |
| A dual enrollment course for which the student receives both high school and college credit for completed coursework. This course surveys the development of American Literature from the Colonial beginning to Whitman, with emphasis on a thorough acquaintance with the work of significant writers of the period, including women and minorities, in their historical and cultural context. Weighted 5.0. | | | | |

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|---|---------------|-----------------|---------------------|
| 1401 Effective Speaking | ½ year | 1 credit | Grades 11-12 |
| Pathway: Arts & Communication | | | |
| A dual enrollment course for which the student receives both high school and college credit for completed coursework. This course is designed to help students build confidence in preparing and delivering informative and persuasive speeches. Topics include subject selection, audience analysis, research, organization and use of voice and body in speech delivery. Weighted 5.0. | | | |
| 1402 English Composition 1 | ½ year | 1 credit | Grades 11-12 |
| Pathway: Arts & Communication | | | |
| A dual enrollment course for which the student receives both high school and college credit for completed coursework. English Composition I emphasizes the systematic study of writing effective expository prose and argumentation, stressing development and support of a clear thesis. Weighted 5.0. | | | |
| Prerequisite: BCCC Writing Placement Test score of 6 or higher | | | |
| 1403 English Composition 2 | ½ year | 1 credit | Grades 11-12 |
| Pathway: Arts & Communication | | | |
| A continuation of English Composition I, students write several analytical essays in conjunction with classroom study of various genres of literature. Research techniques are taught in preparation of an argumentative and scholarly research paper. Weighted 5.0. | | | |
| Prerequisite: English Composition I | | | |

Foreign Language Courses

Spanish

| | | | |
|---|---------------|-----------------|--------------------|
| 6110 Spanish I | 1 year | 1 credit | Grades 9-12 |
| Pathway: All | | | |
| The listening, speaking, reading and writing skills of the language learning sequence are introduced and developed with tapes of native speakers used to reinforce basic material in class. Grammatical concepts necessary to the acquisition of conversational skills are covered. Interest in Spanish and Hispanic cultures is developed through text and appropriate supplementary materials. | | | |
| 6120 Spanish II | 1 year | 1 credit | Grades 9-12 |
| Pathway: All | | | |
| Students will continue to develop the skills introduced in the first level course. Reading and writing skills will be stressed in coordination with listening and speaking skills, with grammatical accuracy. There will be extensive oral work and pronunciation drills as well as a continuation of cultural study. This course will round out the four language skills and prepare the student for level three. | | | |
| Prerequisite: Spanish I | | | |
| 6121 Honors Spanish II | 1 year | 1 credit | Grades 9-12 |
| Pathway: All | | | |
| Students will continue to develop the skills introduced in the first level course. Reading and writing skills will be stressed in coordination with listening and speaking skills with grammatical accuracy. There will be extensive oral work and pronunciation drills as well as a continuation of cultural study. This course will prepare the student for future honors level courses in Spanish and will cover more material in greater depth than the regular Spanish II course. Weighted 4.5. | | | |
| Prerequisite: Grade of B or higher in Spanish I and teacher recommendation | | | |

6131 Spanish III **1 year** **1 credit** **Grades 10-12**

Pathway: All

Students will continue to develop the skills of listening, speaking, reading and writing through the use of the basic text and variety of supplementary materials, including audio and video tapes of native speakers of the Spanish speaking world. Students will be introduced to a wider scope of history and culture in the language which will be developed through supplementary readings, projects and class activities.

Prerequisite: Spanish II

6130 Honors Spanish III **1 year** **1 credit** **Grades 10-12**

Pathway: All

Students will continue to develop the skills of listening, speaking, reading and writing through the use of the basic text and a variety of supplementary materials, which include audio and video tapes of native speakers. The traditional units on the history and culture will be expanded to include more comprehensive projects that utilize more independent research and writing. Units on art, music, and poetry traditionally studied in the fourth year will be included in the third year curriculum. The use of the computer and the Internet will be an integral part of the curriculum. **Weighted 4.5.**

Prerequisite: Grade of B or higher in Spanish II and teacher recommendation

6140 Honors Spanish IV **1 year** **1 credit** **Grades 11-12**

Pathway: All

Students will continue to develop the four basic language skills previously mentioned and will place greater focus on the foreign language as an acquired second language. Literature from recognized authors will be studied in great depth, to emphasize literary analysis in the foreign language. An extensive grammar component will be in place which should serve as important preparation for those students taking the SAT II Foreign Language exams as well as placement tests required by most universities. The computer and Internet will continue to be a vital part of this course. **Weighted 4.5.**

Prerequisite: Grade of B or higher in Spanish III or Grade of C or higher in Honors Spanish III. Teacher recommendation required in both cases.

6150 Honors Spanish V **1 year** **1 credit** **Grade 12**

Pathway: All

Expanded works of literature will be studied in greater depth with an emphasis on literary analysis. An extensive grammar component will be in place to prepare students for any of the placement tests required by most colleges and universities as well as the SAT II Foreign Language exams. Individual preparation for those students wishing to take the AP exam will be provided. Students will be encouraged to develop their writing and creative skills with computers and other multi-media projects. **Weighted 4.5.**

Prerequisite: Grade of C or higher in Honors Spanish IV and teacher recommendation.

Italian

6310 Italian I **1 year** **1 credit** **Grades 9-12**

Pathway: All

Students will be introduced to Italian language and culture, acquiring skills in listening, reading, writing, and speaking. The class presents opportunities to develop practical language skills with immediate application in communicative situations. Students are also exposed to the history and culture of Italy through the use of computers, movies, television programs, projects, and celebrations such as Christmas, Carnevale, and the biennial Italy trip.

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| 6320 Italian II | 1 year | 1 credit | Grades 9-12 |
| Pathway: All | | | |
| Students will continue to develop the skills introduced in the first level course. Reading and writing skills will be stressed in coordination with listening and speaking skills and grammatical accuracy. There will be a formal study of various aspects of Italian culture. Authentic materials, such as brochures, advertisements, magazine articles and Italian television are used to give students a more realistic understanding of contemporary Italian life. | | | |
| Prerequisite: Italian I | | | |
| 6321 Honors Italian II | 1 year | 1 credit | Grades 9-12 |
| Pathway: All | | | |
| Students will continue to develop the skills introduced in the first level course. Reading and writing skills will be stressed in coordination with listening and speaking skills with grammatical accuracy. There will be a formal study of various aspects of Italian culture. Authentic materials, such as brochures, advertisements, magazine articles, and Italian television will be used to give students a more realistic understanding of contemporary Italian life. This course will prepare the student for future honors level courses in Italian and will cover more material in greater depth than the regular Italian II course. Weighted 4.5 | | | |
| Prerequisite: Grade of B or higher in Italian I and teacher recommendation. | | | |
| 6331 Italian III | 1 year | 1 credit | Grades 10-12 |
| Pathway: All | | | |
| Students will continue to develop the skills of listening, speaking, reading and writing through the use of the basic text and variety of supplementary materials, including audio and video tapes of native speakers of the Italian speaking world. Students will be introduced to a wider scope of history and culture in the language which will be developed through supplementary readings, projects and class activities. | | | |
| Prerequisite: Italian II | | | |
| 6330 Honors Italian III | 1 year | 1 credit | Grades 10-12 |
| Pathway: All | | | |
| Students will continue to develop the skills of listening, speaking, reading and writing through the use of the basic text and a variety of supplementary materials, which include audio and video tapes of native speakers. The traditional units on the history and culture will be expanded to include more comprehensive projects that utilize more independent research and writing. Units on art, music and poetry traditionally studied in the fourth year will be included in the third year curriculum. The use of the computer and the Internet will be an integral part of the curriculum. Weighted 4.5. | | | |
| Prerequisite: Grade of B or higher in Italian II or teacher recommendation. | | | |
| 6340 Honors Italian IV | 1 year | 1 credit | Grades 11-12 |
| Pathway: All | | | |
| Students will continue to develop the four basic language skills previously mentioned and will place greater focus on the foreign language as an acquired second language. Literature from recognized authors will be studied in great depth, to emphasize literary analysis in the foreign language. An extensive grammar component will be in place which should serve as important preparation for those students taking the SAT II Foreign Language exams as well as placement tests required by most universities. The computer and Internet will continue to be a vital part of this course. The student is encouraged to develop creativity and individual style in writing and other multi-media projects. Weighted 4.5. | | | |
| Prerequisite: Grade of B or higher in Italian III or Grade of C or higher in Honors Italian III. Teacher recommendation required in both cases. | | | |

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|---|---------------|-----------------|-----------------|
| 6350 Honors Italian V | 1 year | 1 credit | Grade 12 |
| Pathway: All | | | |
| Expanded works of literature will be studied in greater depth with an emphasis on literacy analysis. An extensive grammar component will be in place to prepare students for any of the placement tests required by most colleges and universities as well as the SAT II Foreign Language exams. Individual preparation for those students wishing to take the AP exam will be provided. Students will be encouraged to develop their writing and creative skills with computers and other multi-media projects. Weighted 4.5. | | | |
| Prerequisite: Grade of C or higher in Honors Italian IV and teacher recommendation. | | | |

Family and Consumer Sciences Courses

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|---|---------------|-----------------|---------------------|
| 9124 Childcare and Development I | 1 year | 1 credit | Grades 11-12 |
| Pathway: Health & Social Services | | | |
| This course is designed to develop skills needed to understand the growth and development of children. Areas of study include: Children and You, Pregnancy and Birth, The Baby's First Year, and The Child for One to Three. | | | |
| 9024 Resources for Living I | 1 year | 1 credit | Grades 9-12 |
| Pathway: Health & Social Services | | | |
| This course enables students to utilize both personal and environmental resources. Decision making and management skills are emphasized throughout the year. Activities include basic money management, renting and furnishing your first apartment, nutrition and meal planning, parenting, clothing, and consumer economics. Students will be introduced to related career areas. | | | |

Health and Physical Education Courses

| | | | |
|--|---------------|-----------------|--------------------|
| 7010 Physical Education 9/10 | 1 year | 1 credit | Grades 9-10 |
| 7011 Physical Education 9/10(Lab) | | | |
| Pathway: Health & Social Services | | | |
| Physical Education consists of nine (9) three-week units. These activities include: lifetime sports (swimming, fitness, gym and Frisbee games, tennis and archery), team sports (basketball, volleyball, softball, football and foam hockey), conditioning activities (weight training, walking, fitness testing) | | | |
| 7120 Health/Wellness Education 11 | 1 year | 1 credit | Grade 11 |
| 7121 Health/Wellness Education 11 (Lab) | | | |
| Pathway: Health & Social Services | | | |
| Health education is designed to help each student develop self-identity through the study of the physical, social, and emotional dimensions of people and their relationships to family and community. Health education emphasis is on providing students with the knowledge necessary to make informed decisions that will lead to a healthy lifestyle. Health topics include human diseases, first aid, childcare, parenting, nutrition, marriage and single life. | | | |

| HALF-YEAR COURSES | | | |
|--|-----------------|------------------|---------------------|
| 7320 Physical Education 11/12 | 1/2 year | .5credit | Grades 11-12 |
| Pathway: Health & Social Services Activities include: lifetime sports (swimming, fitness, gym and Frisbee games, tennis and archery), team sports (basketball, volleyball, softball, touch/flag football and foam hockey), conditioning activities (weight training, walking, fitness testing) | | | |
| 7321 Lifeguarding and CPR | 1/2 year | .5 credit | Grades 11-12 |
| Pathway: Health & Social Services This course is designed to meet all requirements for American Red Cross Life guarding and CPR. Successful completion of this course will enable students to receive American Red Cross certification. | | | |
| 7322 Swimming & Water Safety | 1/2 year | .5 credit | Grades 11-12 |
| Pathway: Health & Social Services This course is designed to teach students water safety guidelines, swimming, rescue techniques, diving, and skills for all types of aquatic activity. Regardless of your skill level, from novice to advanced swimmer, this course will expand your knowledge, improve your skill and teach basic to advance aquatic skills. | | | |
| 7325 Weight Training & Conditioning | 1/2 year | .5 credit | Grades 11-12 |
| Pathway: Health & Social Services Students will set individual goals (general fitness, specific sports activity, or weight reduction). Program will be designed for individuals to attain goals. Progress and assessment will be directed by classroom instructor. | | | |
| 7330 Physical Education Majors | 1/2 year | .5 credit | Grade 11-12 |
| Pathway: Health & Social Services This course is designed to introduce interested students to the areas of Physical Education (Kinesiology), Recreation, Dance, Fitness, Sports/Athletic training, Health and Nutrition Education, Officiating and Coaching as a Career. Students will participate in both classroom and physical practice instruction to gain awareness and knowledge into areas associated with careers in Fitness/Wellness | | | |

Technology Education Courses

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|---|---------------|-----------------|---------------------|
| 9121 Wood Manufacturing I | 1 year | 1 credit | Grades 9-12 |
| Pathway: Engineering, Science & Technology A course of study that develops skills related to the manufacturing processes representative of the wood industries. Students develop an understanding of the types of wood that are used in construction processes. Basic blueprint techniques are taught as they relate to the projects constructed in the class. | | | |
| 9025 Introduction to Construction | 1 year | 1 credit | Grades 11-12 |
| Pathway: Engineering, Science & Technology A theory-based, exploratory course in Construction Technology. Introduces students to the design and building techniques utilized in our constructed world. It is designed to develop an understanding of various processes and applications in Construction Technology. | | | |

Technology Dual Enrollment Courses

High School Engineering Program

The PLTW Pathway to Engineering (PTE) program is a sequence of courses which follows a proven hands-on, real-world problem-solving approach to learning. Throughout the program, students learn and apply the design process, acquire strong teamwork and communication proficiency and develop organizational, critical-thinking, and problem-solving skills. Students use the same industry-leading 3D design software used by companies such as Intel, Lockheed Martin, and Pixar. These courses allow our students to earn three (3) college credits from Rochester Institute of Technology. Taking all four PLTW courses allows students the opportunity to earn up to twelve (12) college credits before they graduate. These courses are weighted 5.0.

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| 9000 Introduction to Engineering Design | 1 year | 1 credit | Grades 9-12 |
| Pathway: Engineering, Science & Technology | | | |
| This course emphasizes the development of a design. Students use the inventor 3D computer software to produce, analyze, and evaluate models of projects solutions. Students can receive 3 college credits. Weighted 4.5 | | | |
| Prerequisite: Grade of B or higher in Algebra Topics II | | | |
| 9100 Principles of Engineering | 1 year | 1 credit | Grades 10-12 |
| Pathway: Engineering, Science & Technology | | | |
| This course provides an overview of engineering and engineering technology. Students develop problem-solving skills by tackling real-world problems. Students can receive 3 college credits. Weighted 4.5 | | | |
| Prerequisite: Introduction to Engineering Design or teacher recommendation | | | |
| 9200 Civil Engineering & Architecture | 1 year | 1 credit | Grades 11-12 |
| Pathway: Engineering, Science & Technology | | | |
| The major focus of this course is completing long-term projects that involve the development of property sites. As students learn about the various aspects of civil engineering and architecture, they apply what they learn to the design and development of the property. Students work in teams, exploring hands-on activities and projects to learn the characteristics of civil engineering and architecture. Students learn about documenting their projects, solving problems, and communicating their solutions to their peers and members of the professional community of civil engineering and architecture. Students can receive 3 college credits. Weighted 5.0 | | | |
| Prerequisite: Principles of Engineering or teacher recommendation. | | | |
| 9210 Digital Electronics | 1 year | 1 credit | Grade 12 |
| Pathway: Engineering, Science & Technology | | | |
| This course is designed to study electronic circuits that are used to process and control digital signals. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, high definition televisions, etc. The major focus of this course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation. Weighted 5.0 | | | |
| Prerequisite: Principles of Engineering or teacher recommendation. | | | |

Mathematics Courses

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|--|-----------------|------------------|---------------------|
| 3920 Algebra I | 1 year | 1 credit | Grade 9 |
| Pathway: All | | | |
| This course is designed for those students with good mathematical ability and interests, who have successfully completed the elementary math series, including pre-algebraic concepts. It extends previously learned arithmetic skills to include expressions involving variables. Major topics include linear equations and inequalities, exponents, polynomials, factoring, quadratic equations, proportions, functions, data analysis, applications and problem solving. *Also available online | | | |
| Prerequisite: Teacher recommendation | | | |
| 3940 Algebra 1A | 1 year | 1 credit | Grade 9 |
| This course is the first of two designed to prepare students for the upcoming Algebra Keystone Exam. Students will be taught topics such as solving equations, inequalities and proportions, graphing linear equations and functions, systems of equations and inequalities as well as laws of exponents. Students that successfully complete this course will subsequently take Algebra 1B to finish their preparation for the Algebra Keystone Exam. Taken concurrently with Math 9 Lab. | | | |
| Prerequisite: Eighth grade PSSA Math score of Basic or Below Basic. | | | |
| 3945 Math 9 Lab | 1 year | 1 credit | Grade 9 |
| Pathway: All | | | |
| This course is designed for students who have demonstrated weakness in prior math courses, district assessments or the 8 th grade Math PSSA. The curriculum is designed to strengthen each student's basic math skills in hopes of achieving proficiency on the Algebra Keystone Exam. 1 elective credit will be awarded for the successful completion of the course. Taken concurrently with Algebra 1A. | | | |
| Prerequisite: Basic or Below Basic on the 8th grade Math PSSA or teacher recommendation. | | | |
| 3040 Algebra 1B | 1 year | 1 credit | Grade 10 |
| This course is the second of two designed to prepare students for the upcoming Algebra Keystone Exam. Students will be taught topics such as various equations of lines and how to graph them as well as solving multiple equations simultaneously, polynomials and factoring, solving and graphing quadratic equations, and simplifying radical and rational expressions. Upon completion of this course, students will be prepared to successfully complete the PA Keystone Algebra 1 Exam. Taken concurrently with Math 10. | | | |
| Prerequisite: Successful completion of Algebra 1A | | | |
| 3045 Math 10 Lab | 1 year | 1 credit | Grade 10 |
| Pathway: All | | | |
| This course is designed for students who have completed Math 9. The curriculum includes basic math skills and introductory Algebra in hopes of helping students achieve proficiency on the Algebra Keystone Exam. 1 elective credit will be awarded for the successful completion of the course. Taken concurrently with Algebra 1B. | | | |
| Prerequisite: Successful completion of Math 9. | | | |
| 3020 Algebra II | 1 year | 1 credit | Grades 10-11 |
| Pathway: All | | | |
| This course is designed for those students with good mathematical ability and interest who have mastered the concepts and skills of Algebra I. Algebra I concepts are reviewed and extended. | | | |
| Prerequisite: Grade of B or higher in Algebra I | | | |
| 3040 Keystone Algebra Review | 1/2 year | .5 credit | Grade 11 |
| Pathway: All | | | |
| This course is designed to provide remediation to students who have passed Algebra 1 but scored at the basic or below basic level on the Keystone Algebra 1 Exam. The purpose is to prepare the student to successfully complete the PA Keystone Algebra 1 Exam. | | | |

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| 3900 Honors Algebra II | 1 year | 1 credit | Grades 9-10 |
| Pathway: All | | | |
| This course is a continuation of Algebra I. Topics include linear and quadratic equations and inequalities, problem solving, systems of equations and inequalities, complex numbers, polynomials, rational exponents and logarithms, sequences and series, conic sections, and statistics. Weighted 4.5. | | | |
| Prerequisite: Grade of A in Algebra I or B or higher in Hon Algebra I, with teacher recommendation and proficient on the State Keystone exam. | | | |
| 3120 Geometry | 1 year | 1 credit | Grades 10-12 |
| Pathway: All | | | |
| Geometry is a modern development of Euclidean Geometry covering congruency, similarity, parallelism, perpendicularity, areas and volumes. Concepts from coordinate geometry are reviewed with an emphasis on the integration of algebra and geometry. | | | |
| Prerequisite: Grade of B or higher in Algebra II or teacher recommendation | | | |
| 3000 Honors Geometry | 1 year | 1 credit | Grades 10-11 |
| Pathway: All | | | |
| This course is designed for those students with excellent mathematical ability and interest who have mastered the concepts and skills of algebra. Topics include congruency, similarity, parallelism, perpendicularity and area/volume of geometric figures. Concepts from coordinate geometry are reviewed with an emphasis on the integration of algebra and geometry. Weighted 4.5 | | | |
| Prerequisite: Algebra II grade of B or higher with teacher recommendation | | | |
| 3260 Mathematics Proficiency Workshop | 1 year | 1 credit | Grade 12 |
| Pathway: All | | | |
| This course is designed to prepare students for the district assessment requirement for graduation. It will offer students the opportunity to strengthen their basic math skills to attain these competencies. It is required for all students in grade 12 who have not met the Proficiency standard in Mathematics on the Keystone Exam. | | | |
| 3100 Honors Pre-Calculus | 1 year | 1 credit | Grades 11-12 |
| Pathway: Engineering, Science & Technology | | | |
| This course is designed for those students with excellent mathematical ability and interest who have mastered the skills of Algebra II and Geometry. This course is an extension of the concepts covered in the two prerequisite courses with an emphasis on the functional aspects necessary for the preparation for the study of calculus. Weighted 4.5 | | | |
| Prerequisite: Grade of B or higher in Geometry and Algebra II and teacher recommendation | | | |
| 3201 Honors Calculus | 1 year | 1 credit | Grade 12 |
| Pathway: Engineering, Science & Technology | | | |
| Calculus and analytical geometry. This course will cover the following topics: Analytic geometry, behavior of functions, limits and transcendental functions. Major emphasis is on derivatives and methods of integration with application. Weighted 4.5 | | | |
| Prerequisite: B or higher in Pre-calculus and teacher recommendation | | | |
| 3202 Pre-calculus | 1 year | 1 credit | Grades 11-12 |
| Pathway: Engineering, Science & Technology | | | |
| This course is an extension of the concepts covered in the two prerequisite courses with an emphasis on the functional aspects necessary for the preparation for the study of calculus. | | | |
| Prerequisite: Grade of B or higher in Geometry and Algebra II and teacher recommendation | | | |
| 3204 Introduction to College Math | 1 year | 1 credit | Grade 12 |
| Pathway: All | | | |
| This course is an overview of topics that may be encountered by first-year college students. Students will explore Set Theory, Logic, Consumer Topics, Algebra, Geometry, Probability and Statistics. | | | |

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|--|---|-----------------|------------------|---------------------|
| 3206 | Introduction to Computer Science | 1 year | 1 credit | Grade 12 |
| Pathway: All | | | | |
| This course is an overview of topics and concepts that might be encountered by first year college students. Students will explore structured programming techniques in JAVA along with traditional mathematical concepts such as functions, arrays (matrices), and logical algorithms as applied to computer programming. | | | | |
| Prerequisite: Grade of C or higher in Geometry and Algebra II and teacher recommendation | | | | |
| 3207 | Statistics | 1 year | 1 credit | Grades 11-12 |
| Pathway: All | | | | |
| This course focuses on elements such as probability, statistical distributions, hypothesis testing, and other statistical investigations. It is designed for students who intend to enroll in college but not major in a science-oriented discipline. | | | | |
| Prerequisite: Grade of B or higher in both Geometry and Algebra II | | | | |
| 3300 | AP Calculus AB | 1 year | 1 credit | Grade 12 |
| Pathway: Engineering, Science & Technology | | | | |
| AP Calculus AB is a college-level mathematics course for which many colleges will grant advanced placement and/or credit based upon the results of the Advanced Placement Examination. Students who enroll in this course should have demonstrated mastery of the advanced topics in algebra, trigonometry, analytic geometry, complex numbers and calculus. The major emphasis of the course will be differential and integral calculus with applications. Students will be expected to solve problems analytically, graphically, through modeling and using technology and to express those answers both orally and in well-written sentences. Weighted 5.0 | | | | |
| Prerequisite: Grade of B or higher in Honors Pre-Calculus and teacher recommendation. | | | | |
| 3301 | AP Statistics | 1 year | 1 credit | Grade 12 |
| Pathway: All | | | | |
| AP Statistics is a college-level mathematics course for which many colleges will grant advanced placement and/or credit based upon the results of the Advanced Placement Examination. Students who enroll in this course should have demonstrated mastery in Algebra I and Algebra II. The major emphasis of the course will be measures of central tendency and dispersion, hypothesis testing and parametric testing. Students will be expected to solve problems analytically and demonstrate understanding of complex statistical analysis through well-written responses. Weighted 5.0 | | | | |
| Prerequisite: Grade of B or higher in Honors Algebra II and teacher recommendation. | | | | |
| Half-Year Courses | | | | |
| 1170M | SAT Preparation | 1/2 year | .5 credit | Grades 10-12 |
| This course is designed to familiarize students with the current Scholastic Achievement Test. Students will receive instruction and practice in mathematics. Reducing test anxiety through constant practice on past tests is an integral part of the course. Students will learn test taking strategies. | | | | |
| 3145 | Literature Keystone Review | 1/2 year | .5 credit | Grade 11 |
| This course is designed to provide remediation to students who have passed Algebra 1 but scored at the basic or below basic level on the Keystone Algebra 1 Exam. The purpose is to prepare the student to successfully complete the PA Keystone Algebra 1 Exam. | | | | |

Social Studies Courses

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|-----------------------------------|---------------|-----------------|----------------|
| 2920 Western Civilizations | 1 year | 1 credit | Grade 9 |
|-----------------------------------|---------------|-----------------|----------------|

Pathway: All

This course will review the development of world civilizations from a period of transition to the modern world. Contemporary world events will also be reviewed to foster a global outlook. Students will apply social studies skills to help in developing an understanding of the significance of the role geography, history, economics, and cultures have played in impacting world events.

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|--|---------------|-----------------|----------------|
| 2900 Honors Western Civilizations | 1 year | 1 credit | Grade 9 |
|--|---------------|-----------------|----------------|

Pathway: All

This course is an intensive study of the development of world civilizations. The essential relationship between economy, environment, and society will be explored as ancient civilizations transition to the modern world. A comparative study of Old and New World cultural responses to environmental stimuli will serve to demonstrate the evolution of complex societies. Included are in-class activities, mandatory writing and research projects, and examination of historical and political trends. **Weighted 4.5**

Prerequisite: Grade of B or higher in Social Studies 8 and teacher recommendation

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|----------------------------------|---------------|-----------------|-----------------|
| 2020 American Studies III | 1 year | 1 credit | Grade 10 |
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Pathway: All

This course will emphasize the development of the United States in the Twentieth Century from the Great Depression to the present. The course will also provide background on the ideals of American government.

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|---|---------------|-----------------|-----------------|
| 2000 Honors American Studies III | 1 year | 1 credit | Grade 10 |
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Pathway: All

This course is an intensive exploration of the development of the United States in the 20th century to the present. The course also provides background on the ideals of the American Government. Included are in-class activities, mandatory writing and research projects, and examination of historical and political trends. **Weighted 4.5**

Prerequisite: Grade of B or higher in Western Civilization and teacher recommendation

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|-------------------------------------|---------------|-----------------|-----------------|
| 2122 Civics & Government | 1 year | 1 credit | Grade 11 |
|-------------------------------------|---------------|-----------------|-----------------|

2140

Pathway: All

This course examines the organization and operation of American government. It focuses on our nation's government, with an emphasis on political theory, governmental structure and process, political parties, interest groups, as well as, current political issues and problems.

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|--|---------------|-----------------|-----------------|
| 2100 Honors Civics & Government | 1 year | 1 credit | Grade 11 |
|--|---------------|-----------------|-----------------|

Pathway: All

This course examines the organization and operation of American government. It focuses on our nation's government, with an emphasis on political theory, governmental structure and process, political parties, interest groups, as well as, current political issues and problems. Included are in-class activities, mandatory writing and research projects, and examination of historical and political trends. **Weighted 4.5**

Prerequisite: Grade of B or higher in American Studies II and teacher recommendation

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|--------------------------|---------------|-----------------|-----------------|
| 2220 Everyday Law | 1 year | 1 credit | Grade 12 |
|--------------------------|---------------|-----------------|-----------------|

Pathway: All

This course will provide an overview of an individual's legal rights and responsibilities as a citizen of the United States. It will serve as an introduction to the law and the legal system.

Prerequisite: Grade of C or higher in American Studies II

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|--|---|---------------|-----------------|---------------------|
| 2221 | Studies in Diversity | 1 year | 1 credit | Grade 12 |
| Pathway: All | | | | |
| This course examines the rich ethnic diversity of the United States. Issues of ethnicity, cultural groups, gender, and social class in America are explored. It also addresses the history and experiences of the major ethnic groups that have contributed to American culture. | | | | |
| Prerequisite: Grade of C or higher in American Studies II | | | | |
| 2226 | AP American History | 1 year | 1 credit | Grades 11-12 |
| Pathway: Arts & Communication/Health & Social Services | | | | |
| This is a college level course which offers the possibility of college credit while fulfilling the basic requirement of American History. The content of the course encompasses the evolution of our American political, economic and social institutions, as well as, the events and people who made them from their inception in the colonial era to modern day America. Weighted 5.0. | | | | |
| Prerequisite: Grade B or higher in Honors American Studies II and teacher recommendation | | | | |
| 2228 | AP Psychology | 1 year | 1 credit | Grades 11-12 |
| Pathway: Arts & Communication/Health & Social Services | | | | |
| This is a college level course for which students may earn college credits upon successful completion of the Advanced Placement Examination. This course explores the fundamental topics regarding behavior and mental processes. Topics include research methods, neuropsychological basis of behavior, genetic and evolutionary foundations of behavior, development, sensation and perception, consciousness and its altered states, learning, intelligence and reasoning, basic motives and emotions, personality, stress and coping, psychopathology and social interaction. Weighted 5.0 | | | | |
| Prerequisite: Grade B or higher in Honors American Studies II and teacher recommendation | | | | |
| 2227 | AP United States Government and Politics | 1 year | 1 credit | Grades 11-12 |
| Pathway: Arts & Communication/Health & Social Services | | | | |
| This is a college level which offers the possibility of college credit while fulfilling the basic requirement of Practices of Democracy. The course involves extensive reading and written assignments which go beyond the scope and intent of the other United States government courses offered. The major emphasis will be on class discussions of work assignments from a basic survey text and supplementary readings. The content of the course encompasses constitutional underpinnings of United States government: political beliefs and behaviors, political parties, interest groups and mass media, three branches of our government, and civil rights and liberties. Weighted 5.0. | | | | |
| Prerequisite: Grade B or higher in Honors American Studies II and teacher recommendation | | | | |
| 2224 | Contemporary Issues and World Affairs | 1 year | 1 credit | Grade 12 |
| Pathway: Arts & Communication/Health & Social Services | | | | |
| This course is a study of world events. Topics will include religious wars, global warming, terrorism, global interdependence, pandemics and more. | | | | |
| 2223 | Sociology | 1 year | 1 credit | Grades 11-12 |
| Pathway: Arts & Communication/Health & Social Services | | | | |
| The study of man, society and culture, and inter-personal relationships with special emphasis on the family, community and the individual's personality development as affected by cultural phenomena. During the last nine weeks, emphasis is placed on specific social problems existing in contemporary society. | | | | |
| Prerequisite: Grade of B or higher in American Studies I | | | | |
| 2225 | Psychology | 1 year | 1 credit | Grades 11-12 |
| Pathway: Arts & Communication/Health & Social Services | | | | |
| This is a comprehensive introductory course which covers theories of motivation, development and personality through biological, environmental and unique influences. Special emphasis is placed on the theories of major psychologists and on special topics such as emotion, frustration, conflict, mental illness and mental health. Outside reading and research are required. | | | | |
| Prerequisite: Grade of B or higher in American Studies II | | | | |

Science Courses

| | | | |
|--|---------------|-----------------|---------------------|
| 4940 General Science 9 | 1 year | 1 credit | Grade 9 |
| Pathway: Engineering, Science & Technology/Health & Social Services | | | |
| This course is designed to reinforce the fundamental concepts of science as well as introducing students to the inquiry laboratory process. Topics to be explored include the nature of science, applications of technology, cycles in nature, basic laboratory skills, and the nature of elements and compounds. | | | |
| 4920 Academic Science 9 | 1 year | 1 credit | Grade 9 |
| Pathway: Engineering, Science & Technology/Health & Social Services | | | |
| This is a college prep course designed to reinforce the fundamental concepts of science and laboratory skills and proceed to investigate more advanced scientific concepts. Topics to be investigated include: The nature of science, laboratory skills, natural processes, cycles in nature and environmental relationships. | | | |
| 4040 General Biology | 1 year | 1 credit | Grade 10 |
| Pathway: Engineering, Science & Technology/Health & Social Services | | | |
| This course is devoted to the study of living things and their processes and provides the opportunity for students to develop scientific process skills, laboratory techniques, and an understanding of the fundamental principles of living organisms that apply to life at all levels of organization. The course is designed to help students prepare for the Biology Keystone Exam, the successful completion of which is a Pennsylvania state graduation requirement. | | | |
| 4020 Academic Biology | 1 year | 1 credit | Grade 10 |
| Pathway: Engineering, Science & Technology/Health & Social Services | | | |
| This is a college prep course designed to offer an understanding of our biological heritage. The content is focused on the use of life science principles as powerful conceptual tools to make sense of the complexity, diversity and interconnectedness of life on earth. Students engage in laboratory and authentic learning experiences that encourage the application of biological knowledge to make decisions and solve problems. The course is designed to help students prepare for the Biology Keystone Exam, the successful completion of which is a Pennsylvania state graduation requirement. | | | |
| *Also available online | | | |
| 4000 Honors Biology | 1 year | 1 credit | Grade 9 |
| Pathway: Engineering, Science & Technology/Health & Social Services | | | |
| This course is a high level introduction to modern biology. Stress is placed on interaction of biological units and continuity of life through the study of cellular structure, genetic adaptations, heredity and reproduction. Class meets five times a week for labs and lectures. Passing biology is required for graduation. Weighted 4.5 *Also available online | | | |
| Prerequisite: Grade of A in Science 8 and teacher recommendation | | | |
| 4601 AP Biology | 1 year | 1 credit | Grades 11-12 |
| Pathway: Engineering, Science & Technology/Health & Social Services | | | |
| AP Biology is a college level course designed to provide exceptional, highly motivated high school seniors with the opportunity to receive 3 college level credits in the biological sciences. The course is academically demanding, with emphasis on student discovery and problem solving. This course includes an in-depth study of populations, evolution, plants, vertebrates and molecular biology. Class meets six times per week for labs and lectures. Summer assignment required. Weighted 5.0. | | | |
| Prerequisite: Grade of A in Biology or B or higher in Honors Biology, A in Lab Chemistry, B or higher in Honors Chemistry and teacher recommendation | | | |
| 4140 General Chemistry | 1 year | 1 credit | Grade 10 |
| Pathway: Engineering, Science & Technology/Health & Social Services | | | |
| This course offers an overview of the structure and composition of matter and changes that matter undergoes. Conceptual understanding will be stressed over mathematical analysis. | | | |

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| 4120 Academic Chemistry | 1 year | 1 credit | Grade 10 |
| Pathway: Engineering, Science & Technology/Health & Social Services | | | |
| Academic chemistry deals with the structure and composition of matter and the changes that matter undergoes. It requires students to apply themselves to an intensive examination of the fundamental principles of chemistry built on a framework of experimental observations. Class meets six times per week for labs and lectures. | | | |
| Prerequisite: Grade of C or higher in Algebra I and B or higher in Biology | | | |
| 4100 Honors Chemistry | 1 year | 1 credit | Grade 10 |
| Pathway: Engineering, Science & Technology/Health & Social Services | | | |
| This course is a high-level introduction into modern chemistry. It involves lectures, demonstrations, class discussions and laboratory investigations. Class meets six times per week for labs and lectures. Weighted 4.5. | | | |
| Prerequisite: Grade of B or higher in Honors Biology, Algebra II, and teacher recommendation | | | |
| 4602 AP Chemistry | 1 year | 1 credit | Grades 11-12 |
| Pathway: Engineering, Science & Technology/Health & Social Services | | | |
| AP Chemistry is designed to be the equivalent of the general chemistry course taken during the first year of college. The course is academically demanding with emphasis on student discovery and problem solving. Class meets six times per week for labs and lectures. Summer assignment required. Weighted 5.0. | | | |
| Prerequisite: Grade of A or higher in Lab Chemistry or B or higher in Honors Chemistry. Teacher recommendation required. | | | |
| 4540 Conceptual Physics | 1 year | 1 credit | Grades 11-12 |
| Pathway: Engineering, Science & Technology | | | |
| This course offers the basic study of the principles and laws of physics. This course offers a hands-on approach for studying the basic principle and laws of physics. Concepts are stressed rather than mathematics. Designed for the college bound liberal arts major. | | | |
| 4520 Lab Physics | 1 year | 1 credit | Grades 11-12 |
| Pathway: Engineering, Science & Technology | | | |
| This algebra-based course is recommended for students planning to major in science or engineering in college. It is laboratory-oriented and covers mechanics; the branch of physics dealing with motion, forces, and energy. Class meets six times per week for labs and lectures. | | | |
| Prerequisite: Grade of C or higher in Lab Chemistry, Pre-calculus concurrently. | | | |
| 4500 Honors Physics | 1 year | 1 credit | Grades 11-12 |
| Pathway: Engineering, Science & Technology | | | |
| This course offers a rigorous mathematical treatment of the physical world and is recommended for students planning to attend college. It is laboratory-oriented and covers mechanics; the branch of physics dealing with motion, forces, and energy. Class meets six times per week for labs and lectures. Weighted 4.5 | | | |
| Prerequisite: Grade of B or higher in Lab Chemistry or C or higher in Honors Chemistry, Pre-calculus concurrently. Teacher recommendation required. | | | |
| 4510 Physics 2 | 1 year | 1 credit | Grade 12 |
| Pathway: Engineering, Science & Technology | | | |
| This course is a continuation of the exploration of physical phenomena. Topics include; oscillations & waves, optics, electricity & magnetism, and topics in modern physics. Class meets five times each week. Weighted 4.5 | | | |
| Prerequisites: successful completion of Lab Physics, Honors Physics, or Conceptual Physics. | | | |

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|--|--|---------------|-----------------|---------------------|
| 4603 | AP Physics | 1 year | 1 credit | Grades 11-12 |
| Pathway: Engineering, Science & Technology | | | | |
| AP Physics is a college-level course designed to provide exceptional, highly-motivated high school seniors with the opportunity to receive three (3) college-level credits in physics. The course is academically demanding with emphasis on student discovery and problem solving. Weighted 5.0. | | | | |
| Prerequisite: Grade of A or higher in Academic Chemistry or B or higher in Honors Chemistry, Calculus concurrently, and teacher recommendation. | | | | |
| 4426 | Forensic Science | 1 year | 1 credit | Grade 12 |
| Pathway: Engineering, Science & Technology / Health & Social Services | | | | |
| The principles and practices of Forensic Science is a course designed to explore the application of basic biological, chemical and physical science principles and technological practices to the purposes of justice in the study of criminal and civil issues. Major themes of study in this course are observation skills, crime scene investigation, the analysis of hair, fiber and blood spatter. Fingerprint and DNA analysis will also be included and course will culminate in a final year-end miniature crime scene. | | | | |
| Prerequisite: Grade of C or higher in Biology | | | | |
| 4400 | Honors Anatomy & Physiology | 1 year | 1 credit | Grades 11-12 |
| Pathway: Engineering, Science & Technology / Health & Social Services | | | | |
| This course offers an in-depth study of human body systems and should be considered by students interested in the healthcare field. Students will examine the structure and function of the human body from the cellular to the organ level. Instruction will include detailed investigations of the Integumentary, Skeletal, Muscular, Circulatory, Respiratory, Digestive, Endocrine, Excretory, Nervous, and Reproductive systems. Students will be required to dissect multiple specimens including pigs, cats, and frogs. Students will also complete research projects on disorders of the human body. Weighted 4.5 | | | | |
| Prerequisite: Grade of B or higher in Academic Chemistry or C or higher in Honors Chemistry, and teacher recommendation. | | | | |
| 4425 | Microbiology | 1 year | 1 credit | Grades 11-12 |
| Pathway: Engineering, Science & Technology / Health & Social Services | | | | |
| This course investigates microorganisms and the various roles they play in our living world. Topics explored in this class include identification of common microbes, culturing and staining microorganisms, host-microbe relationships, disease processes, uses of microbiology in industry, immune response and epidemiology. Instruction focuses on the impact microorganisms have on health, biotechnology and the environment. Discussions about harmful microorganisms, the diseases and conditions they cause, and the body's resistance and response to such activities are also stressed. | | | | |
| Prerequisite: Grade of B or higher in Biology and B or higher in Chemistry | | | | |
| 4220 | Earth and Space Science | 1 year | 1 credit | Grades 11-12 |
| Pathway: Engineering, Science & Technology | | | | |
| This course deals with the oceanography, meteorology, and astronomy branches of earth science. Hands-on activities and projects are included throughout the year. | | | | |
| Prerequisite: Biology and Chemistry | | | | |
| 4320 | Environmental Science | 1 year | 1 credit | Grades 11-12 |
| Pathway: Engineering, Science & Technology | | | | |
| This course provides students with a foundation of understanding, knowledge, and skills to deal effectively with complex environmental issues. Students will utilize a variety of laboratory and field techniques to study topics that include global warming, acid rain, and endangered species. An emphasis is placed on students using critical thinking and analytical skills to make a positive impact on the environment. | | | | |
| Prerequisite: Chemistry and Biology | | | | |

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|-------------|-------------------------------------|---------------|-----------------|---------------------|
| 4300 | Honors Environmental Science | 1 year | 1 credit | Grades 11-12 |
|-------------|-------------------------------------|---------------|-----------------|---------------------|

Pathway: Engineering, Science & Technology

This course provides students with the foundation, understanding, knowledge, and skills to understand and scientifically investigate the environment. Students will utilize a variety of laboratory and field techniques to study topics that include field research, ecology, energy issues, global warming, alternative energy, pollution, farming practices, and biodiversity. Students will need a good background understanding of biology, chemistry, and math to further their understanding of the interdisciplinary sciences involved in environmental science. The course will be taught at the honors level in order to prepare students for further study at the college level and give them the foundation to become environmentally literate citizens. **Weighted 4.5**

Prerequisite: Proficient or better in Biology Keystone and teacher recommendation

Career Pathways

Arts & Communication: Careers in this Pathway are related to the visual and performing arts and design, journalism and broadcasting, audio and video technology, printing technology, telecommunications.

Business & Finance: Careers in this Pathway are related to the business environment and include entrepreneurial careers, sales, marketing, computer and information systems, finance, accounting, human resources, economics, and business management.

Engineering, Science & Technology: Careers in this Pathway are related to the technologies necessary to design, develop, install and maintain physical systems; agriculture; the environment and natural resources; scientific research and development services; and planning, management, and movement of people, materials and goods from one point to another

Health & Social Services: Careers in this Pathway are related to the promotion of health and treatment of disease and disorders; economic, political, and social systems; and teaching and training children and adults the information and skills needed to ensure a productive career and life.

Bucks County Community College

Where: Three convenient locations throughout Bucks County:

- Newtown Campus
- Lower Bucks Campus, located in Bristol
- Upper Bucks Campus, located in Perkasié

Why: College is expensive – alleviate some of the financial commitment by attending Bucks County Community College for the first two years of study toward your degree. Then transfer your BCCC credits to a bachelor's degree program of your choice.

Some of Bucks top transfer schools include:

PA State Schools:

| | |
|-----------------------|-----------------------------|
| Temple University | East Stroudsburg University |
| Penn State University | Kutztown University |
| Bloomsburg University | Millersville University |

Private Schools:

| | |
|-------------------------|------------------------|
| Arcadia University | Holy Family University |
| Delaware Valley College | Jefferson University |
| Drexel University | LaSalle University |
| Gwynedd-Mercy College | Rider University |
| Philadelphia University | |

What: Degrees and/or certificates can be earned at Bucks County Community College. Some examples include, but are not limited to:

| | |
|--|---|
| <u>Arts & Communication</u> <ul style="list-style-type: none"> • Cinema/Video Production • Graphic Design • Music • Fine Woodworking • Web Design & Multimedia • Journalism • Women's Studies | <u>Business & Finance</u> <ul style="list-style-type: none"> • Business Administration • Accounting • Hospitality Tourism Management • Paralegal Studies • Travel and Event Planning • Bookkeeping • Culinary |
| <u>Engineering, Science & Technology</u> <ul style="list-style-type: none"> • Engineering • Information Science & Technology • Digital Game & Simulation Design • Environmental Science • Nanofabrication Technology • Network Administrator • Computer Forensics | <u>Health & Social Services</u> <ul style="list-style-type: none"> • Education • Sports Management • Nursing • Liberal Arts: Psychology • Police Administration • Early Childhood Education • Emergency Management & Public Safety |

For more detailed information, please visit Bucks County Community College online at www.bucks.edu.

Arts & Communication

Careers in this Pathway are related to the visual and performing arts and design, journalism and broadcasting, audio and video technology, printing technology, telecommunications.

PA Department of Education
Career Clusters

- Arts, Audio-Visual Technology & Communications

| Interests | Skills/Abilities | Knowledge |
|--|---|--|
| Art/Music/Dance Writing Acting/Entertaining others Directing/Conducting Design/Fashion Photography Broadcasting/Public speaking Computers | Idea generation Writing Originality Influencing others Speech clarity Working independently Deductive reasoning | English Language Fine arts Communications and Media Computers and Electronics Music Social Sciences French |

| Related Two-Year Technical School & Associate Degree Programs | Related Four-Year Bachelor Degree Programs |
|---|--|
| Commercial Art | Art History |
| Desktop Publishing | Economics |
| Graphic Communication | Electronic Engineering |
| Music and Marketing | Fashion Design |
| Photography | Journalism |
| Printing Technology | Music |
| Telecommunications | Sociology |
| Web Developer | World Language |

Business & Finance

Careers in this Pathway are related to the business environment and include entrepreneurial careers, sales, marketing, computer and information systems, finance, accounting, human resources, economics, and business management.

| PA Department of Education Career Clusters | |
|---|--|
| <ul style="list-style-type: none"> • Business, Management & Administration • Finance • Information Technology • Marketing, Sales & Services | |

| Interests | Skills/Abilities | Knowledge |
|---|--|--|
| Computers and technology Buying and merchandising Record keeping Owning your own business Sales/persuading others Designing systems Leadership and authority Making a profit | Influence others Manage people and projects Give speeches and presentations Debate ideas Explain electronic operations Generate computer designs Keep records Collect and manage data Use computers and technology | Administration/Management Computer Technology Business Mathematics Sales Marketing Finance Economics Accounting World Languages |

| Related Two-Year Technical School & Associate Degree Programs | Related Four-Year Bachelor Degree Programs |
|---|--|
| Accounting Services | Accounting |
| Actuarial Sciences | Business Administration |
| Banking & Financial Support Services | Computer Science |
| Business & Administration Services | E-Commerce |
| Cyber Security | Information Science |
| Desktop Publishing | International Science |
| Graphic Design | Marketing Management & Resources |
| Printing Technology | Marketing |
| Telecommunications | Merchandising |
| Web Design | Public Relations |

Engineering, Science & Technology

Careers in this Pathway are related to the technologies necessary to design, develop, install and maintain physical systems; agriculture; the environment and natural resources; scientific research and development services; and planning, management, and movement of people, materials and goods from one point to another.

PA Department of Education Career Clusters

- Agriculture, Food & Natural Resources
- Architecture & Construction
- Manufacturing
- Science, Technology, Engineering & Mathematics
- Transportation, Distribution and Logistics

| Interests | Skills/Abilities | Knowledge |
|--|---|---|
| Building things Fixing electrical/mechanical items Working outdoors Operating motorized equipment Studying technical problems Applying mathematics to problems Collecting/organizing data Doing manual labor Mechanical problem solving Producing tangible result | Critical thinking Information gathering Deductive/inductive reasoning Information ordering Follow instructions precisely Problem solving Machinery operation & control Assemble & repair items Manual dexterity Coordination & flexibility | Mathematics Science Geography Computers & Electronics Engineering & Technology Agriculture Building & Construction Mechanical Design |

| Related Two-Year Technical School & Associate Degree Programs | | Related Four-Year Bachelor Degree Programs | |
|---|-----------------------------------|--|---------------------------------------|
| Architectural Engineering Technology | Home & Building Remodeling | Agricultural Science & Natural Resources | Management Science & Systems Analysis |
| Automotive Technology | Mechanical Engineering Technology | Aerospace Engineering | Electrical Engineering |
| Aviation Maintenance | Metal Fabrication | Agronomy | Equine Science |
| Construction Technology | Masonry | Animal Science | Horticulture |
| Cabinet Making | Nanofabrication Technology | Architecture & Design | Industrial Engineering |
| Collision Repair Technology | Plumbing | Biology | Mathematics |
| Electrical Technology | Transmission Technology | Biochemistry | Mechanical Engineering |
| Geospatial Technology | Surveying | Chemistry | Nanofabrication |
| Heating, Vent, Air Condition | Welding | Civil Engineering | Physics |

Health & Social Services

Careers in this Pathway are related to the promotion of health and treatment of disease and disorders; economic, political, and social systems; and teaching and training children and adults the information and skills needed to ensure a productive career and life.

| PA Department of Education Career Clusters | |
|--|--|
| <ul style="list-style-type: none"> • Education & Training • Health Science • Hospitality & Tourism • Human Services • Law, Public Safety & Security • Government & Public Administration | |

| Interests | Skills/Abilities | Knowledge |
|--|---|---|
| Caring for people or animals Science and medicine Experiments and lab research Helping others Observing and recording facts Researching information Working on a team Family and social services Teaching others Volunteer work | Oral expression Active listening Speech clarity Leadership Social perceptiveness Fluency of ideas Manual dexterity Follow instructions precisely Analyze collected data | Education and Training Health Science Physical Education Medicine Dentistry Family and Consumer Science Therapy and Counseling Sociology Mathematics Science |

| Related Two-Year Technical School & Associate Degree Programs | | Related Four-Year Bachelor Degree Programs | |
|---|-----------------------------|--|-----------------------------|
| Biotechnology | Medical Lab Technology | Biotechnology | Medical Lab Technician |
| Cardiovascular Technology | Occupational Technology | Cardiovascular Technician | Occupational Technology |
| Child Development | Parks, Recreation & Leisure | Child Development | Parks, Recreation & Leisure |
| Culinary Arts | Physical Therapy | Culinary Arts | Physical Therapy |
| Dental Hygiene | Pre-K Education | Dental Hygiene | Pre-K Education |
| Dietary Manager | Radiology Technician | Dietary Manager | Radiology Technology |
| EMS Management | Respiratory Care Technician | EMS Management | Respiratory Care Technician |
| Human Services | Restaurant Management | Human Services | Restaurant Management |
| Medical Assisting | Surgical Technology | Medical Assisting | Surgical Technology |

Arts & Communication Careers

| Career | Educational Attainment | Average PA Annual Wage (\$) | Projected Growth (%) |
|---|------------------------|-----------------------------|----------------------|
| Graphic Designers | BD | 43,900 | 16.1 |
| Public Relations Specialists | BD | 56,820 | 23.1 |
| Interpreters & Translators | OJT | N/A | 50.0 |
| Art Directors | BD | 68,100 | 16.0 |
| Craft Artists | PS VOC | 24,090 | N/A |
| Fine Artists, including Painters, Sculptors, and Illustrators | PS VOC | 41,970 | N/A |
| Multi-Media Artists and Animators | BD | 51,350 | 10.0 |
| Commercial and Industrial Designers | BD | 54,560 | 5.0 |
| Fashion Designers | PS VOC | 62,610 | N/A |
| Floral Designers | PS VOC | 21,700 | 2.0 |
| Interior Designers | AD | 42,260 | 8.0 |
| Merchandise Displayers and Window Trimmers | PS VOC | 23,820 | 8.0 |
| Set and Exhibit Designers | BD | 41,820 | N/A |
| Program Directors | BD | 56,310 | 13.0 |
| Talent Directors | BD | 56,310 | 13.0 |
| Public Relations Manager | BD | 82,180 | 12.0 |
| Market Research Analyst | BD | 58,820 | 14.0 |

Recommended Electives

| | | |
|--------------------------|-------------------------------------|-------------------------|
| Journalism | Painting 2 | Communications 1 |
| Public Speaking | Photography 1, 2 | Video Production 1, 2 |
| Humanities | World Languages | Concert Band 1, 2, 3, 4 |
| AP American History | Intro to Film Study | Music Theory 1, 2 |
| AP Government & Politics | Graphic Design | Piano Lab 1, 2 |
| Art 1, 2, 3 | Theatre 1, 2, 3 | Vocal Music 1, 2, 3, 4 |
| Craft & Design 1, 2 | Acting in Musical Theatre | Guitar 1, 2 |
| Painting | Contemporary Issues & World Affairs | Digital Music/Media |
| | | |
| | | |
| | | |

PhD = Doctorate
 M = Master's Degree
 BD = Bachelors Degree Plus
 AD = Associates Degree

OJT = On-the-Job Training
 PS VOC = Post-Secondary Vocational
 WK EXP = Work Experience

Business & Finance Careers

| Career | Educational Attainment | Average PA Annual Wage (\$) | Projected Growth (%) |
|--|------------------------|-----------------------------|----------------------|
| Chief Executives | BD+ | 157,670 | 14.4 |
| General & Operations Managers | BD+ | 100,990 | 17.1 |
| Sales Managers | BD+ | 106,580 | 15.5 |
| Administrative Services Managers | BD+ | 74,140 | 19.7 |
| Financial Managers | BD+ | 100,480 | 15.1 |
| Claims Adjusters, Examiners & Investigators | OJT | 47,370 | 33.3 |
| Cost Estimators | BD | 51,130 | 15.4 |
| Management Analysts | BD+ | 65,220 | 15.1 |
| Accountants & Auditors | BD | 59,860 | 16.9 |
| Loan Officers | BD | 78,100 | 20.8 |
| Computer Software Engineers, Applications | BD | 74,630 | 41.9 |
| Computer Software Engineers, Systems Software | BD | 68,720 | 45.3 |
| Computer Support Specialists | AD | 40,350 | 27.6 |
| Computer Systems Analysts | BD | 65,610 | 29.4 |
| Network & Computer Systems Administrators | BD | 63,400 | 35.7 |
| Insurance Sales Agents | BD | 84,320 | 15.4 |
| Travel Agents | PS VOC | 28,990 | 15.4 |
| Sales Representatives, Scientific & Technical | OJT | 69,750 | 8.0 |
| Sales Representatives | OJT | 60,940 | 10.6 |
| Real Estate Sales Agents | PS VOC | N/A | 10.7 |

Recommended Electives

| | |
|-------------------------|------------------------------|
| Accounting 1, 2 | Intro to Business |
| Fashion Marketing | Business Communications 1, 2 |
| Computer Applications 1 | Computer Applications 2 |
| Personal Finance | Web Page Design |
| Business Management | World Languages |
| | |
| | |

PhD = Doctorate

M = Master's Degree

BD = Bachelors Degree Plus

AD = Associates Degree

OJT = On-the-Job Training

PS VOC = Post-Secondary Vocational

WK EXP = Work Experience

Engineering, Science & Technology

| Career | Educational Attainment | Average PA Annual Wage (\$) | Projected Growth (%) |
|--|------------------------|-----------------------------|----------------------|
| Environmental Engineers | BD | 65,040 | 20.0 |
| Industrial Engineers | BD | 65,220 | 15.4 |
| Mechanical Drafters | PS VOC | 54,170 | 9.5 |
| Electrical & Electronic Engineering Technicians | AD | 51,630 | 8.7 |
| Medical Scientists | PhD | 77,480 | 28.6 |
| Environmental Scientists & Specialists | BD | 53,110 | 16.7 |
| Biological Technicians | AD | N/A | 28.6 |
| Carpenters | OJT | 40,210 | 8.3 |
| Construction Laborers | OJT | 32,510 | 4.1 |
| Electricians | OJT | 52,770 | 14.0 |
| Plumbers, Pipefitters & Steamfitters | OJT | 53,900 | 15.2 |
| Automotive Service Technicians & Mechanics | PS VOC | 33,560 | 13.0 |
| Bus, Truck & Diesel Mechanics | PS VOC | 39,940 | 15.3 |
| Mobile Heavy Equipment Mechanics | PS VOC | 38,590 | 20.6 |
| Maintenance & Repair Workers, General | OJT | 35,950 | 15.5 |
| Telecommunications Line Installers & Repairers | OJT | 41,440 | 21.7 |
| Driver/Sales Worker | OJT | 26,750 | 12.4 |
| Truck Drivers, Heavy & Tractor-Trailer | OJT | 38,460 | 15.5 |
| Truck Drivers, Light or Delivery Services | OJT | 25,210 | 18.4 |
| Laborers & Freight, Stock & Material Movers | OJT | 27,100 | 11.2 |

Recommended Electives

| | |
|------------------------------|------------------------------------|
| Introduction to Business | Pre-Calculus |
| Intro to Wood Manufacturing | Calculus |
| Introduction to Construction | Introduction to Engineering Design |
| Physics | Civil Engineering and Architecture |
| World Languages | Principles of Engineering |
| Public Speaking | Digital Electronics |
| Introduction to Drafting | |
| | |

PhD = Doctorate

M = Master's Degree

BD = Bachelors Degree Plus

AD = Associates Degree

OJT = On-the-Job Training

PS VOC = Post-Secondary Vocational

WK EXP = Work Experience

Health & Social Services

| Career | Educational Attainment | Average PA Annual Wage (\$) | Projected Growth (%) |
|---|------------------------|-----------------------------|----------------------|
| Educational, Vocational & School Counselors | MD | 54,180 | 20.6 |
| Mental Health Counselors | MD | 36,010 | 26.9 |
| Mental Health & Substance Abuse Social Workers | MD | 31,670 | 36.6 |
| Social & Human Service Assistants | OJT | 28,700 | 34.0 |
| Paralegals & Legal Assistants | AD | 44,580 | 30.8 |
| Elementary School Teachers | BD | 56,370 | 11.7 |
| Middle School Teachers – Math, Science and Foreign Language | BD | 51,180 | 15.1 |
| Secondary School Teachers – Math, Science and Foreign Language | BD | 57,170 | 14.4 |
| Librarians | MD | 47,710 | 23.3 |
| Teacher Assistants | AD | 19,370 | 21.3 |
| Pharmacists | PROF | 82,270 | 24.0 |
| Registered Nurses | AD | 57,960 | 16.9 |
| Occupational Therapists | BD | 66,880 | 22.2 |
| Dental Hygienists | AD | 64,720 | 34.6 |
| Emergency Medical Technicians & Paramedics | PS VOC | 31,170 | 49.2 |
| Pharmacy Technicians | OJT | 19,640 | 30.2 |
| Veterinary Technologists & Technicians | AD | 29,650 | 43.8 |
| Barbers | PS VOC | N/A | 11.1 |
| Child Care Workers | AD | 18,420 | 12.6 |
| Personal & Home Care Aides | OJT | 19,070 | 25.0 |
| Bill & Account Collectors | OJT | 28,930 | 24.0 |
| Customer Service Representatives | OJT | 29,420 | 21.8 |
| Receptionists & Information Clerks | OJT | 23,480 | 23.0 |
| Desktop Publishers | PS VOC | 39,560 | 25.0 |
| Office Clerks | OJT | 26,170 | 13.3 |

Recommended Electives

| | | |
|---------------------------|-------------------------------------|--------------------------------|
| AP Psychology | Civics & Government | Physics |
| Psychology | Everyday Law | World Languages |
| Resources for Living | Life Guarding & CPR | Sociology |
| Public Speaking | Forensic Science | Studies in Diversity |
| AP Government & Politics | Contemporary Issues & World Affairs | Childcare & Development |
| Physical Education Majors | | Weight Training & Conditioning |
| | | |

PhD = Doctorate
M = Master's Degree
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AD = Associates Degree
OJT = On-the-Job Training
PS VOC = Post-Secondary Vocational

WK EXP = Work Experience

SAMPLE: Career Plan of Study - Healthcare

HIGH SCHOOL (The plan of study serves as a guide, along with other career planning material, as students continue their Career Pathway. Courses listed are only recommended coursework and should be individualized to meet each learner's educational and career goals. Students are not locked into their plans; they revisit them periodically as they continue their education and make revisions as needed. All plans should meet high school graduation requirements as well as college entrance requirements).

| 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|--|--|--|--|
| English 9 | English 10 | English 11 | English 12 |
| Algebra Keystone Algebra | Geometry or Algebra II Keystone Algebra | Algebra II, Geometry or Pre-Calculus | Geometry, Pre-Calculus, Calculus |
| Biology Science 9 | Chemistry Biology | Physics Science (options) | Science (options) |
| Western Civilizations | American Studies III | Civics & Government | Social Studies (options) |
| Required Electives: PE, Health, or World Languages | Required Electives: PE, Health, or World Languages | <u>Additional Electives:</u> -Childcare & Development -Life guarding & CPR -Sociology -Psychology -Additional Science Coursework | <u>BCTHS Options:</u> -Allied Health -Dental Assisting/ Hygiene Prep -Emergency Services Tech |
| Career Electives: Family and Consumer Science | Career Electives: Health or Resources for Living | | |

POSTSECONDARY OPTIONS (In a Career Pathways system, students plan beyond secondary classroom preparation, identifying what they need to do after high school graduation to reach their goal.)

| Technology Center/School | Community College | College/University |
|--|---|--|
| <ul style="list-style-type: none"> • Practical Nursing • Dental Assisting • Emergency Medical Technology • Occupational Therapist Assisting • Surgical Technology | <ul style="list-style-type: none"> • Dental Hygiene • Occupational Therapist Assisting • Orthotic Prosthetics Technology • Physical Therapist Assisting • Radiologic Technology • Respiratory Care • Biotechnology | <ul style="list-style-type: none"> • Dentistry • Nursing • Medical Technology • Doctorate in Osteopathic Medicine • Pharmacy • Physical Therapy • Physician Assisting • Veterinarian Science |

CAREER ENHANCEMENT OPTIONS (Students' plans include possible off-campus learning opportunities and training options that they can pursue outside the classroom even before they graduate).

| Work-based Learning Options | Short-Term Training Options | |
|---|---|--|
| <ul style="list-style-type: none"> • Job Shadowing • Internship / Mentorship • On-the-Job Training | <ul style="list-style-type: none"> • Nurse Aid • Patient Care Technician • Certified CPR / First Aid • Alzheimer's / Geriatric Care • Phlebotomist | <ul style="list-style-type: none"> • EKG Technician • Pharmacy Technician • Central Sterile Processing Technician • Veterinary Assistant • Medical Transcriptionist |

Course Planning Worksheet

Harry S. Truman High School

Name _____
 Last First Middle

I am choosing my high school courses so that I can complete a specific pathway:

- ☐ Arts & Communication
- ☐ Business & Finance
- ☐ Health & Social Services
- ☐ Engineering, Science & Technology

| Required Credits | Grade 9 | Course Name / Number | Grade 10 | Course Name / Number | Grade 11 | Course Name / Number | Grade 12 | Course Name / Number |
|---|-------------------------------|----------------------|------------------------------|----------------------|-----------------------------------|----------------------|---------------------------------|----------------------|
| 4 English | English 9 | | English 10 | | English 11 | | English 12 (options) | |
| 3 Social Studies | Western Civilizations | | American Studies III | | Civics & Government | | Social Studies (options) | |
| 3 Science | Mathematics (options) | | Mathematics (options) | | Mathematics (options) | | Mathematics (options) | |
| 4 Mathematics | Science 9/ Biology | | Biology/ Chemistry | | Physics/ Science (options) | | Science (options) | |
| 1 Physical Education | Physical Education 9 | | Physical Education 10 | | Health 11 | | | |
| 1 Health | Electives (2 credits): | | Elective (2 credits) | | Elective (2 credits) | | Electives (3 credits) | |
| 2 Arts & Humanities | 1. | | 1. | | 1. | | 1. | |
| 6 Electives (2 World Lang.) | 2. | | 2. | | 2. | | 2. | |
| 1 Elective (Science or Social Studies) | | | | | | | 3. | |
| 1 Graduation Project | | | | | | | | |
| Minimum Credits to Graduate: <u>26</u> | 7 Credits Total | | 7 Credits Total | | 7 Credits Total | | 7 Credits Total | |